

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8185	38553	A	8240	3	666	MSFRQLFQDLKRYVQDADVR WEYCVRAKRGQTDTSLGRLFQ QGPGVPGRHRAHSATSPDHRFP VADLTGQGV*GCGPPAAPWG AG*YPGAPLHAGLGTLPAAG AHHGHQPAG*GGAGSPATRLM SVEGCSQRPWTEAPDRPLEHEA VCSVRPRPRCFLGGVGRAGAF EEEWQHQSVCVPCQPPWGLGT CSSMSGKLSRPPASSLLSRGKA WGQEEs
8186	38554	A	8241	2	443	RTSLEFFFFF*DGSFTLVAQA\ GVQWRHLG*LQPRPPGFK*FS YLSLLSSWDYRHALSHLANFV VYVLF CFYETKRSRVTKAGVQ WCDLGS LQAPPGFTPFSCFSL SSWDYRHLPPHLVNF\ CIVSRDG VSLCWSGWSRTPDYK
8187	38555	A	8242	1	354	VSLQPV SQEGVSQRTLGQSSRS SGSG/CPGELNSPIFSGVPHRWD AA*EESRAAGVPWPSGQISGMC SKFRI*NW*DVS WAGWSEDLRS *VDLSHGAKSRRTGD*SPKGGP PIRV TAP
8188	38556	A	8243	2	241	WSTGLLRSGS/NQSSAGKPRR SQSESPG\GSRSSGSGCQESGT CH*G*RRRG*GV LAPAPGKRDL PPRVKDQVRHPCVV
8189	38557	A	8244	5	282	AKKESVREPWARVPGALGVAA R*VEQSDFQC GPAQM GHGLGG IPGCG/PFLGLVVRFLALVASSC PFPRKAGLA AKGEGPRQASLRG LTPLKRG
8190	38558	A	8245	1	302	LSREGVGQKALGQSSRGSGSVC /LGELNSPISSGVPQRWDTA*EE SWAAGIPWPGGQIDFWHL*QA PCPRKSREGVETRREGVGV LAP SPEKRD LPLRVKD
8191	38559	A	8246	1	200	LSPKGVSQRALGQSSRGSGSG/C PGELNSPISSGVPHRWDTA*EES WAAGIPWPGGQISGTCSKLHS
8192	38560	A	8247	23	187	
8193	38561	C	8248	1	1764	

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8194	38562	A	8249	115	872	LRRGRTYPPP*ELPKARHP*WS TGLLRSGSISLQPVSQEGVSQR AFGQSSRSGSG/SPGELNSLISS GVPHRWDM*A*EESWAAGIPWP GGQISGTCS/RAPGGGGSGGMP GCCSGVWVKFLCASRKAGKGS GHRDTRSGCGHKGLGRDMRL GCGNKSGHRDIRGWGTCPPF RKAGLAAKGEGPRQASLRGLT PDLKLVRC\PWAGWSEDLRS*V DLSHGAKNRRTGD*SPKGGPPI LGRPLRACSAAAVHF
8195	38563	A	8250	85	529	SGSISLQPLSREGVSQRALGQSS RSGSG/CPGELNSPISSGVPHR WDTA*EESWAAGIPWPGGQISG TCS/RAPVGGSGGTPGRCGSG VWVKFLCAGDVAGVCLTVEAR NCNFFLLLYTLKARLIKSCPCPR KAGLAAKGEGPRQASLQ
8196	38564	A	8251	1	552	MEARETGPWKEGNVERVASVL IKKGTGLPSTVRVTGSSASVMV YGASEAIGQHQSAAKPRRSQS ESLGPEFQGLWEWLPGPRAVK RLRVIFDEKEPKRYLIWDKEKG ALTMTPLAPATFLRVNCWAG GGGLVTERNCKP*WSTGLPRRS GSISLQPLSREGVSQRALGQSSR GSGSGCQGLGL*SVLIKKGTGL PSTVRVTGSSASVMVYGASEAI GQHQSAAKPRRSQSESLGPEF QGLWEWLPGPRAVKRLRVIFD EKEPKRYLIWDKEKGALTMT PLAPATFLRVNCWAGGGGLVT ERNCKPDQKMGIEIKRRERLK CGSKIERRKRLRDSEGGWRRVE
8197	38565	A	8252	535	710	KCFPACHHYHNNHHHHHHYHHH HQHHHHYHHHHHHRITIIITIF TIITIIINIIINIIITNITIVIFMRVR VKRPPNRLCVSNMAVYFTWVQ KKKSSLAFFSVVTSDLKSKRR LSGKSLETSSASLMVYGASEAT GQRQSSAAKPRRSQSESLGPEF QGLREW*YGDGGDDNDNDGV DGGDDSGGGGCGSGGKQESI SIFD

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8198	38566	A	8253	54	563	AEKESVREPRARVPGARGVAA RPSA/RPR*GRPLLCSPYPKH* NCAWHQQAGCWLGTGPAAPA SPPACAAFSWGYGGLPAPIQTA FQAGW\GAPGQRGRSKTTRPGV QSVSNPGEPAPEPRAAASSGLSS GAFPAPATDPGICSWAEG LVM GKGHHHRPSISARIPCFHV
8199	38567	B	8254	232	987	
8200	38568	C	8255	1	1812	
8201	38569	A	8256	1	1035	
8202	38570	A	8257	2	664	SLIKLIPPPRPFGRNRHLPVIRQN ERTQRGKRRG\TRYMFSPRF*/R KHGVVPLATYLCEIYKQRCDF VDIQGEWGTCSKKGMP/HHKC Y\HG\KTGRSLTIVTPACLLPLFN TTQFRRKILAK\RN\RIEHI*AL LRARD*LP*NRVKENDQEKERS PKRKGTWGST*SRQPAAPR\EA HFLEPNGEALSCWEPFYWI SLGLLGVKKKNKKDLWATKK
8203	38571	A	8258	1	747	MSESLKPLPEVDAGAILLVQP AELYSKASRLDDCYQKDSYTH RCQEKRTCHTTGGHSGKHQSL SGASVSPTCSAKTRDKINCFDFS PKSEVITLSSNDDSI VLSDCQEG KPKPCSGPFATFKMQYDRTCE WTALKISNGGKLILISTNVSFIR LIGAFKGVVIHTFGSYANSEAV TLEASFTADSQFVMIGSEDGKI HVVNEESG\KK*LGWMVNTQA QLPVCNSTPSSMTFASACSNMA FWLPTIDD
8204	38572	B	8259	50	260	
8205	38573	A	8260	1	541	EVWGPGLASEGAVGITHGPFPPK AKRNPVKVRSKRRDPPIQFQNL RRS*WRSIPRKPGRQTGSRRSL WT/ALHPGAGTAKHPPAA/CA GRET*CKSKSPAGRKWSFHRSS SRRASE*DASQFAVPAGVTSRE PFGSRRTGAPTGGTGTPTRTAR SRTWSSSWVRLSGRTGAVGYS RSPSCSS
8206	38574	C	8261	177	236	
8207	38575	A	8262	1	417	

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8208	38576	A	8263	2	475	GIHTRLNSELLKEEESNKRLEAE IEVQSRLTAAISKHSESVKTER NVKLALE*TQDVSVQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDLRKKSLALET L/QNDLSQTQQQIKEMKEMYEN AEAKVNNSTGKWSCVEERICQ LQHEN
8209	38577	A	8264	3	518	IFRAPFRICLGILLSPPNTEQAQY KKQLEQ/FKQGYNTASLNKKEL TLKDVECKFYKMKTAEEVTT ELEEYKEAFAAALKANSSMLK KLTKSNKKIAMIS/TQLFMEKEQ VKYFLSTLRARRGRESPCDENL TSIGL/NRKYIPQMPVRIPTS/SPQ TSNNCQNYLTEVSHMTVSL
8210	38578	A	8265	1053	3733	NGRSCCERSSTKKECTDIESSEF VNRKSLTSGLEEEQRRERSEK KQPQDFHNHEEVKDLMDENCI LKT DIAIPRQEICTMKNDNLEKE NKYLKDIKIAKGTNAALENCIK LNEEMITKTAFRYQQELNDLKA ENTRLNSELLKEKESKKLEAE IESYQSRLAAAISKHSENVKTER NLKLALERTQDVFEQAGLEEA ELVLSRLSCGEATEGAARRALA AEEAGRWRRGVG/DSWLAPES RLHVLKTCGSCW WENLELGRH H*LCLWAVKNFQKRFLPGQKK SPFQLMSPQREFQHTL*ITQKQN RVMNNFIKKYLRLMSSV*CMP LT/IKHSIDKEVRSTSARLPCLGS EERICPAALSGKYKKLLEMTIN VLSVFGNEDFDCHGDLKTDQL KMNILIKLKHKFDLTAEKEA VSSKCVDLAKDNQVLQQELLS MKKVQQQCEKLEKDKKMLEE EILNLKTHMEDNMVELSKLQE YKSELDERAMTAVEKLEEIHLQ LNKGNTASLNKKELTLKDVEC KFSKMKTYYEEVTTKLEEYKE AFAVALKANNMSKKILTKSN KKIAMISTKLLMEKEWVKYFLS TLPTRRGQESPCVENLTSIVLNS KYIPKMTGRIPTSNP*TLNNWQ NYLTEEDMVSGDLISGTWSME EWSLGASSLGTWSAAVGQYLA RWPLCDLSVTVAESPSPCCGA
8211	38579	A	8266	2	209	

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8212	38580	A	8267	1	1431	MTQKAAASVEHLAIRCHWSQR PAVTGDVLQVYSGSEGTAIIFCE TQRSVTEIAMNPHIKQNAQCLH GDIAQSQRFTLKDFREGSFKV LVATNVAACGLDIPEVDLVIHG SPPQDVE/SYIHRSGRTG\FVTM TLESLEEIQDVSCAWKELNRKL SSNAVSQITRMCLLKGNVRVCF DVPTTKSERLQAEWHDSDWIFS VPAKLPEIEEYYDRNTSSNSRQ RSGWSSGQSGRSGGRSGSRNYF AVDTASAIAlALMTFGTMYPMS VYSGKVLLQTTPPHVIGQLDKL IREVSTLDGVLEVRNEHFWTLG FGSLAGSVHVRIRRDANEQMV LAHVTNRLYTLVSTLTVQIFKD DWIRPALLSGPVAANVLNFS DH HVIPMPLLKGTDDLNPVTSTPA KPSSPPPEFSFNTPGKNVNPVIL LNTQTRPYGFGLNHGHTPYSS MLNQGLGVPGIGATQGLRTGF TNIPSRYGTNNRIGQPRP
8213	38581	B	8268	128	1497	
8214	38582	A	8269	1	618	
8215	38583	A	8270	1	334	LFHSIFGYLPFARQTLLPGSILVF TYTQPPKIQFANGTKGLPDPLM TPK*QK\APLMPLLVSGLSAST IALGTRIAGISTSVTTFCSLSNDF SASFSPYLHRCFLPWSSL
8216	38584	A	8271	1	2919	
8217	38585	A	8272	1	4192	MRIPVDASTSRRFTPPSTALSPG KMSEALPLGAPDAGAALAGKL RSGDRSMVEVLADHPGELVRT DSPNFLCSVLPTHWRCNKTLPI AFKVVALGDVPDGLVTVMAG NDENYSAELRNATAAMKNQV ARFNDLRFVGRSGRGKSFTLT TVFTNPPQVATYHRAIKITVDG PREPRNNECVYGNYPEIPLEEM PDADGVASTPSLNIQEPSPATS SEAFTPKESPYKAPIYIPDDIPI PAEFELRESNMPGA
8218	38586	B	8273	385	3930	
8219	38587	A	8274	830	906	

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8220	38588	A	8275	483	971	ATMPGHFYLCETGSNSVSQAG VQ*HDFGSLQPPPGFKQFSCLS LLSSWDYRHMPRPANF/SVFL VEMGFYHVGQAGLGLLTSGDP PASASQSVGITGMSHHAGPTM KLLNPQSEVIFSPRNSHSTLLTP LSRHLPHPISTWCIHYAPLHT VSISAEAP
8221	38589	A	8276	1	2088	
8222	38590	A	8277	1	1822	MMTKDGLVFGQLRGSPILYVQ GLSRFRSFSVASGDSKTRHRE KLPLLEAGERDHNCYGSPQILA FQAICKIAKPGKEQSCSKLVGH TFDPLLIEARKPEERQKLPDPCV KWGGVGNFPPVKRVGDIRIFVS QGGKFSQAPEGPEVTSGSQGLE SKTLEVYPVFYCTVAELALNHN VQPSHSTLPFPQAEPPHSVATTT GPWGVLPGCCQCSLKAQGLFS QLVMNAACTGIHTSGQWAPLW PSTVPEMPKSSGLESCTPRTCF VLYPAVAKLLPRGTLAYSGKG CQNSSANHWDTQIHSPCHAA AAREYGGKSGISDSRLSPTLFSA SFSNMNLKLDKVFYKGCFCF EATAGANVLKIIRESKYKNTD DIDILSRQATPVIAQLAHEHSGH VAGMEVVFGFSNTDFHLPRQT WLQPLSHASLLAETNTESKND TTPQGDQPATWRLNSGYGYAF PACNASAKTIHGLTEVLYTVLV DGNHNLTKLSLEENCLIQLK CENLQKLEQMAAE*KSLRRK RATQEECLMHSNLKFKESAE YTALARQLEAALEEGRQKVAE EIEKMSSRESALQIKILDLETEL RKKNEEQNLVFKNEQ
8223	38591	A	8278	1	5103	MDESSVHSSVGDRHVDRVSTS QVAERTRCNKMWRIETKSPSG DNEGTVIEKKTRLSGQGFCFL QLSEGLQNLQAQRRKIKFREME DPSSRPLCSSLDIALCASVKPSA GFPQRPVKPLCVLGSGAGTG DAERSLQSSDPLKKQQPLARSL RGLCERIVLGGSGCGARGLRG AGGTALSVPGASRGFEGMFG LDQFEPQVNSRNAGQGERNFN ETGLSMNTHFKAPAFHTGGPPG PVDPAMSALGEPPIILGM
8224	38592	A	8279	1	783	
8225	38593	A	8280	888	4915	

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8226	38594	A	8281	94	757	APTGCLACNLLLCELGQVTSPL *ASAPKCVTVHN*PLCKALPRR *SSAWELS*MRKLRLRGVNFRLR TDGLCFCISTRATPPSSARARCV STSLKPASLQLAVSYHHGSRSQ GCHLPAGREVCTSQSRGVRETS PWGC\EKGSPYAEGFPAVISLNP PSSSTAHDLPANKASASQPGSH LQCLSVHCTDDVGDARASV PTWRSLHSDISNRFGTFFVAALT
8227	38595	A	8282	2	374	
8228	38596	A	8283	260	500	
8229	38597	A	8284	98	828	RWASVFPHPPFYLPALLEKKT AERRGGAFSRNKQTAGPCGGT LQEEGSARTVGDSYGEASAGG FSCNKEEGNQRYREG*VTEML GVGYHRALLQLRGLDPS/PALS VT*SRTSGPRPSRLNKKTYCIPP RQDCYNNLAACLLQMEPVNYE RVREYSQKVLERQPDNAKALY RG/SGVAFFHLQDYDQARHYLL GCRE*AALKMPNVRRYPRLTR VRTQOPTHRKEKQLLPWACL VNKEERCSSS
8230	38598	A	8285	396	602	GNCGPEKERTCLRSPSWTPMPS PKQAVPVSSWPPGPHHQRCVP SRSSNFSKSSKSNSCDGNSSSS SS
8231	38599	A	8286	3	156	SVVSLSPHR*AIQILSGVAAGW GLSDGPSSPPSPSGARDTGSPG SSLGL
8232	38600	A	8287	32	515	ARGSWGPGAGARPPGTARRAA RCATGCGSRSSSHAPVSPRRA APSSVHPGGCHGPALPPSPRR VTQAADARRAAPPLRAASAAP SRRWSQAPT/K/RRLGYPPPRP PAHPGPR/PPLRRMVSRSSEDP PRRLT*TGSETPKSTWRELSSRR RSLQSKAATR
8233	38601	A	8288	30	460	RRCPAQRGEIWQSGH\RALLSC SGLHPFQTSWLPVYTVRVKLPT QALAMVDAPPPTKLECPRLISV CCYAGSENFKPVDSLSSIGGS GGVGTRGNLLVCELRRPWDR SIWAGVASRFLRLSPSRFPLA*LG LSSYLTRKT

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8234	38602	A	8289	2	1094	RMSRISDDSRASQLDEFQECL SKFTTRYNSVRPLATLSYASDL YNGSSIVS\SIEFDRDCDYFAIAGV TKKIKVVEYDTVIQDAVDIHYP EN\EMTCNS\KISC\SWASSYHK NLLASSDYEGTVILWDGFTGQR SKVYQEHEKRCWSVDFNLMDP KLLASGSDDAKVKLWSTNLDN SVASIEAKANVCCVKFSPSSRY HLAFG\CSDH\CVHYY\DLRNTK QPIMVFKGHRKAVSYAKFVSG EEIVSASTDSQLKLWNVGKPY. CLRSFKGHFNEKNFVGLASSG DYIACGSENNSLYLYYKALSKT LLTFKFDTVKSVDKDR\EEDD TNEFVSAVCWRALTQMGES\N VLIAA*QFRVPIKVLELV
8235	38603	A	8290	1	667	MRIKATSEDGTVIAQAEYGSVD IGEEVLKKGFAEKCRLASRTDI CEEKKLDPGQLVLRNLKSPIPL WGHRSNQSTFSRPKGHLSEKM TLDLKDENDAGNLITFPKESLA VGDFNLGSNVSLEKIKQDQKLI EENEKLTTEKDALLESYKALEL KVEQIAQELQQEKA AAVDLTN HLEYTLKTYIDTRMKNLA AKM EILKEMRHVDISVRFGKDLSDAI QVLG/SKGALLQLL*MD*R*Y GQNTVWLRRILKL/SEYVSEGN LIAQRNEMQQKLYMSVEDFILE VDESSLNKRKLTLDLSVSLEA VYGQAKEGANSDEILKKFYDW KCDKREEFTSVRSETDASLHLL *HGSKEP*RIKVMQTRR*FQIHI VKYCKRFIQRKGS LPQYKLSTR TVLS/SKKQLIEYLLKIPSV DHL LSIK/TDIEKLKSSTQMEIG*KE* FGKSQMILMALKLRK*KKK*LK KGFAEKCRLASRTDICEEKKLD PGQLVLRNLKSPIPLWGHRSNQ STFSRPKGHLSEKMTLDLKDEN DAGNLITFPKESLA VGDFNLGS NVSLEKIKQDQKLI EENEKLT EKDALLESYKALELKVEQIAQE LQQEKA AAVDLTNHLEYTLKT YIDTRMKNLA AKMEILKEMRH VDISVRFGKDLSDAIQVLG
8236	38604	A	8291	1	325	
8237	38605	A	8292	1	593	
8238	38606	A	8293	1	2013	

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8239	38607	A	8294	2	1427	LLARGAGRTNPAPPLMSCGPW GKFLKCCEVYKSGPYKVQ*EEI TIHSRAEAESTYQIKYEELQTLA GKHGDDLRCAC/T/EISEMNQNI SRLQAETEGKQGASLEAAIA DAEQWGELAIKDANTKLSELE AAMQRAKQDMA/RQLGEYQK LALDIEIATYRKLLLEGESRLES GMQNVSIHKKTTSGYAGAPARI VSLLQNELLSLEVGVKLGHTG KGEELGAPYSECSFGLCRRTVM LTQAPSSVVRSRNSRNHTVNSG GSCLSASTVAIPAINDDSSAAMSA CSTISAQKRTCTACEPARKYK DTASHQEPAVCQPACQLETADP KGGGV LALPQPPSPGMLCWPY CRAHATDYFLANFFSEFPCHFL HRAGAAQTQATGDGMEHGQS RELPKRKAPREESETSEEKSPNK WGPVSKQKKQLLDILTTHIRPT RGNAYTGLSTRKWKPRSEENA LMQPNKKDEKGTLTQKLGL
8240	38608	A	8295	301	462	
8241	38609	A	8296	2	825	YPPSPGRSAAHVSTLYRTTP* WPDQRSAAPTAWAAS*SPSAR RRPSAESMVPREPL*YRPSAATS AATPAISPARALGAGAPCPLFR RRSGPFGRTSAIRPPSSAGKAVL FPPHGRPVWPVGR LARYATAS GWGAHI*ASSGASE/PAVVSVLP AGSGASPFHSASWDPPAHPAAA ASAAA VIPAL*RSGDRPPVLSFQ PLFWFLIRGDNVSFVLLRGLP CPSQAVTTRHRS LQKEKLKRNR KSCVNFMQSQVSVSKYSNLVK HHHFCIRPL
8242	38610	A	8297	3	251	
8243	38611	A	8298	208	307	
8244	38612	C	8299	18	197	
8245	38613	A	8300	1	1866	

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8246	38614	A	8301	2	2558	FEVLWSDSSITSVTKSSSEVTEFI SKLCQLYPEENLEKLIPCLAGPD AFYVERNHVLDLSGLRYLASLP SHVLKNDHVRRFLSTSSPPQQL QSPSPGNPSLSKVGTVMGVSGR PVCVAGIPSSQSGAQHHGQHP AGSAAPLPHCSHAGSAGSALA YRTQMDTSPAILMPSSLQTPQT QEQNGILDWLRKLRLHKYYPV FKQLSMEKFLSLTEEDLNKFES LTMGAKKKLKTQLELEKEKSE RRCLNPSAPPLVTSSGVARVPPT SHVGPVQSGRGSHAAELRVEV EQPHHQLPREGSSEYSSSSSSP MGVQAREESSDSAENDRRVEI HLESSDKEKPVMLLNHFTSSSA RPTAQVLPVQNEASSNPSGHP LPPQMLSAASHITPIRMLNSVH KPERGSADMKLLSSSVHSLLSL EERNKGSGPRSSMKVDKSFSGA MMDVLPASAPHQPQVLSGLS ESSMSPTVSFGPRTKVVHAST LDRVLTAKQPALVETSTAA TGTPSTVLHAARPPIKLLSSSV PADSAISGQTSCPNNVQISVPPA IINPRTALYTANTKVAFSAMSS MPMGPLQGGFCANSNTASPSR HPSTSFANMATMPSCPAPSSSP ALSSVPESSFYSSSGGGGSTGNI PASNPNNHHHHHHQPPAPPQP APPPPGCIVCTSCGCSGSCGSSG LTVSYANYFQHPFSGPSVFTFPF
8247	38615	A	8302	2	266	YCGPL*SVWVARNPPGFAFVEF EDPRDAAGVV*ELDGRITLCPV PSWGHRP*DDYCRRGLPPRRRP PRRRNLSCSRSLYSPWTLSL
8248	38616	A	8303	37	535	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMHRDSCPLADCKV YVGNLGNNGNKTELERAFFGY GPLRSVWVARNPPGFAFVEFED PRDAADAVRELDGRITLIGCARV REEVLSNGEKKK\SRNRGPPPS\W GRPPSENDNRKEESFPPRRRSP R\RRSFS\RSRSLSLF

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8249	38617	A	8304	2	668	EIAERRITQPAPPGPSRPSGPGPA GELGGPGTGRALCPADNGGLC CGCPLAVP/GPLAVPR/ALKPQR TSLSHPTSVTNNGRGVSQPGPR RHPGLPTQASTKPPQSRRDAAP LGGAGRGGPGSMAAARTPRGG GH*GVDGPGRRRPRDASRLGRLF RPRSRADPVP*P/PVAIGRDLPS PDDNGQRP*GAWKVSE/CPERR RVERLAAIGRLVFILPDFAVGRE
8250	38618	C	8305	101	183	
8251	38619	A	8307	329	399	RERET*SSINTTFIPGSVLQPDAS PSKTGTLTISIPVTIPENTSQSQVI GTEGGKNASTSATRSYSSILP GVIALIVITLSVFLVGLYRMC WKAHPGTPENGNDQPQSDKES VKLFTGKTISHESGEHSA*GK
8252	38620	A	8308	192	537	KFPTSTPENGNDQ*\PQSDKESV KLLTVKTISHESVILNQNKMDI TEIEFRIWMAMKITENQKIETHS EESEEFNKTIQGMKYEIAILRKN KTDLTTELKNSPQEFHNTLEVLT AE
8253	38621	A	8309	1	789	
8254	38622	A	8310	1	423	EDIWFDDVDPADIEAAIGPEAA KIARKQLGQSEGSVSLSLVKEQ AFAGEELEVQKEVAEMLKG RILVGHALHNDLKVLFLDHPKK KIRDTQKYKPKFSQVKSGRPSL RLLSEKILGLQVQQAHECSIQD AQAAMRLYVM
8255	38623	A	8311	1	1077	MGKAKVPASKRAPSPVAKPG PVKTLTRKKNKKKRFWKS REVSKKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKPKII QQNKKETSPQVKEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTERTNGDI VPERGDIEHKKRKAKIGQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKHLTRALALDCEMVG VGPKGEESMAARVSIVNQYVK CVYDKYVKPTEPVTDYRTAVS GIRPENLKQGELEVQKEVAE MLKGRILVGHALHNDLKVLFL DHPKKKIRDTQKYKPKFSQVKI QDAQAAMRLYVMVKKEWES MARDRRPLLTAPDHCSDDA
8256	38624	A	8312	3	640	

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8257	38625	A	8313	1	1274	MGKAKVPASKRAPSSPVAKPG PVKTLTRKKNKKKKRFWKS REVSCKPASGPGAVVRPPKAPE DFSQNWKALQEMGSKKKPKII QQNKKETSPQVKGEEMPAGKD QEASRGSVPSGSKMDRRAPVPR TKASGTEHNKKGTERTNGDI VPERGDIEHKKRKAK/GQPQPH PPR/IDIWFDDVDPADIEAAIGPE AAKIARKQLGQSEGSVSLSLVK EQAFGGLTRALALDCEMVGV GPKGEESMAARVSIVNQYGKC VYDKYVKPTEPVTDYRTAVSGI RPENLKQGEELVVQKEVAEM LKGRILVGHALHNDLKVLFLD HPKKKIRDQTQKYKPKSQVKSG RPSLRLLSEKILGLQVQQAHC SIQDAQAAN*GCYVMVKEGVG RAWPETGAPCLTASRPLQ*RRL SSPALLAACPPRLQRQC
8258	38626	A	8314	2	414	
8259	38627	A	8315	1	621	
8260	38628	A	8316	1	885	MGEKPGPLLFSSAKPKNPQEGE HKDEGDHPNNSFSPCSAHDRC LQKHFAKIRDRSTSGGKMKVN GAPREDARPVNKGTYLVSTGG QTVAFTTGSWDQDDSESSLGC QEDSTALHPTSTSPGPSETVPPS LLPEATKRLLSLDFESFGQTQR NLSCPLCPAGVWQEKTLCEWR DAGGNRQAGVPQAPCMKSNN ALIVILGTVTLDAVGIGLVMPV LPG/SPALLQRQAEESPGRRTOG /RRVTTPTTASAPVAPMTAGAC RSTSPKFETGAPVGAR*RSMGR PGRMPGL*IKAPTWCQVGRLL PSLLAPGKTTQSPA/SGCQEDS TALHPTSTSPGPSETVPPSLLPE ATKRLLSLDFESFGQTQRNLSC PLCPAGVWQEKTLCEWRDAGG NRQAGVPQAPCMKSNNALIVIL GTVTLDAVGIGLVMPVLPGLLR DIVHSDSIASHYGVLLALYALM QFLCAPVLGALSDFRGRPVLL ASLLGATIDYAIMATTPVLWIY
8261	38629	A	8317	1	396	

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8262	38630	A	8318	186	2123	CPAHCWQEAMLSAWRLVMSP GGPCTQHPAPACHPSVLTTPRK AGEPRP*WPPCPA WGPLADSSK PHRWRPKPPASCRPLVRRPWGP QRTLTPTLTSHWRASIR*SWNW TPSSCFPQGLGAPRLSWPRAPC Q*ERRRNLKPWT*STSR*PPPDQ GATMAPSTAPAPLSRPSAPFA VVASSFPETSPERHEAAVRASSS LGTRAGGTSALCPPQRVSP/HRP PNSPSISIPCMGSKASSPHGLGSP LVASPRLEKRLGGLAPQRGSRI SVLSASPVSDVSYMFGRTPHSP PLAKEHA\AAAPHSPTPWWTY PLC*STAAQN/RGSSPPQRTPGH QNSVQPGAASPSNPCPATRSNS QTLSDAPFTTCPEGPARDMQPT MKFVMDTSKYWFKPNITREQG CPGGAVSISDSRIVPAIELLRKE EPGAFVIRDSSSYRGSFGLALK VQEVPAQAQSRPGEDSNDLIRH FLIESSAKGVHLKGADDEEYFG SLSAFVCQHSIMALALPCKLTIP QRGCHTLYLSSVSVETLTGALA VQKAISTTTERDILPTPTVVHFK VTEQGITLTDVQRKVFFRRHYP LTTLRFCGMDPEQRKWQKYCK PSWIFGFVAKSQTEPQENVCHL FAEYDMVQPASQVIGLVTALL QDAERM
8263	38631	A	8319	15	909	LHVSHPGHADARGGLLQPCAA PPLWLCRIQCPRWFQTPSQVF YHAATEHGGKDVYPGQCLWE GCEPFQRQRFSFITHLQAANCR/ EAQ/RSTPRAQKAIVNHPSAAL MALRRGSRNLVFRDFTDEKEG PITKHIRLTAALILKNIGKYSEC GRSWPRASRYQQGHQDLFILRS DLPSQVFIRDKLMERRNRRTGR TEKARIWEVTDRTVRTWIGEA VAAAAADGVTFSPVTPHTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS

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8264	38632	A	8320	189	4419	KPGLFP*RVY*EYVFRLSQSLGE FHQF*FKRGQY/ATTSSPPFSPW ANIIRKA TRC*CRWRFRFIMPFV MASMSA/GMLNELQQYCDEW QGGAAVVAQHVAPPPGIVEIDS EKFACQWLNAHFVNPDCSVS RAEMYSEYLSTCSKLARGGILT STGFYKCLRTVFPNHTVKRVED SSSNGQAHIHVVGVKRRAIPLPI QMYYYQQPVSSTSVVRVDSVPD VSPAPSPAGIPHGSQTIGNHFQR TPVANQSSNLTA
8265	38633	A	8321	27	674	GPQNTPMPPSPSVRVQGPNSS QSPSPFGSSQPGDPMRKPQGNF MCLWQSCKKWFQTPSQVFYHA ATEHGGKDVYPGQCLWEGCEP FQRQRFSFITHLQDKHCSKDAL LAGLKQDEPGQAGSQKSSTKQ PTVGGTSSTPRAQKAIVNHPSA ALMALRRGSRNLVFRDFTDEK EGPITKHTPTNSCP*Y*KISGKY SECGSADWLKETMENNLSA
8266	38634	A	8322	16	341	PPGRGSAHPAARQLQTPGSAAP LS*HQGPASRGTPPGPIKARAP SKSRARGLRAAQRARLSARAR AGCA/PP*ARGAARKLGAPGTF QETLPPGTRDRKCCSGDAVVH
8267	38635	A	8323	1	400	MAEGMAMLRWTRLGTWPDDS FDEMSTLAVQQYTQQNIR/AQ DCSNTDKNLEPPEGQDADCHG F*APRWHCSASYVASSEFAGDD RRI*IPLDPWVKKFCECWCSGPT PFRE/CPRELN*HLKDGCSCRYL RARN
8268	38636	A	8324	3	179	ISWPSPSLLGQTAALCANGAGP AGTPPGRGPVSARFGRRGAAC VCSPSPSPLAPLSR*RFAVMW WQEA*RRGPRLPLLSSLPAAAG SGRAARAAAELPGGGRAGAR/P L/LLTPAQVQGESARG/AGAEG GRGTPGP/GCPLPAGRSLCQPG PRSP*TAALCANGAGPAGTTP GRGPVSARFGRRGAACVCSPPS PSPLAPLSR

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8269	38637	A	8325	1	1744	DFQERLSMKDQLIAQSLLEKQQ IYLEMAEMGGLEDLPQPRGLFR GGDPSETLQGEILKSAMSEIEG IQLICRRLGSANGQAEDGGSST GPPRAETFAGYDCTNSPTKIV EAPGTES/DPRLPTVLESELVQRI QT/LSQLLLNLQAVIAHQDSY/V ETQRAAIQEREKQFRL/QSTRGN LLEQERQRNF/EKQREERAAL EKLQSQL/RHEQQRWERERQW QHQ/ELERAGARLQEREgear/ QURERLEQERAEERQ/RQAYQ HDLERLREAQRAAQPPS/HPPSF NGEGLEGPRVSML/PSGVGPEY AERPEVAR/RDSAPTENRLAKS DVPI/QLLSATNQFQRQAAVQQ/ QIPTKLAASTKGGKD/KGGKSR GSQRWESS/A*AGPPLRLGLEG ATGQALAAAGSQEIRDTCAILW RGNQKAQLASWLRPPHTGPVW SPGPKLR*STLHLLTSTLKTVG WPGALERARARRQRSLATWD QHSRTGTASF DLKQQLLNK/L MGKDESTSRNRRSLSPTCPGRH SPAPPPDPGFP/APSPPPADSPSE GFSLK/AGGTALLPGPPAPSLP/ ATPLSAKEDASKEDVIFSKRAV TQANH
8270	38638	A	8326	147	536	WAQEGSGRNTHQQYKILDVML KGLFKVCAGRGQLMAGPVFDL GTDG*TG VQLKDG\WSALPRPV LRTTRSSLAAPSLLF/YYFDHNS NWNLLIRWGIFCNQTGVFNQ GPHSPILSLVRTGVEVAREPSVG
8271	38639	A	8327	59	339	
8272	38640	A	8328	43	510	LLLWGGLRELTIMVEDEGEQM SIWVLDKDLGAPHLVLVGSML TARSRCWTPWRSSHATAATSE GEGWGVGVLIADRPGWASDEG DGE GGGGGLTSAEFGELAAV GEAGSAHPMF SFRPRYSTWCLT HIGQGGLELLTL*STRSASQSAG VTGMSH
8273	38641	A	8329	98	493	FFYFLFIYFFETESRSVTLAGVQ WYDLCSLQPLPRLKRFCSLSLP SSWDYRHPPHPANFCSFLVVT GFHHLGQAGLELLTS*S/IPSSAS QSAGITGVSHHARPGPLSLANN PRSQTRTSATVCPEQLGLD

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8274	38642	A	8330	3	328	HSAARRPSSRRSSPRPETS CAN VNAGWNQDP THVIRF RSMAT AGSTRYR*GLHAAPSP PHRRP RSPPGAE*A/RREARSLKR*SPPC HPTKKATMCR CIIYVPLIHK
8275	38643	A	8331	24	593	FEQQWGWA AAAAAPPGKA HTR *TGRSPHR PHRTQPR*NPSG TA APGPVPS*AGSS H*AGSG*RAW GPGSSRR*RSCT*RLRSRGRPPR *GPSRR*VRSARPSRA*RAPPGS HRPGCGAAAPAPAASAPARAP WAGADSSAPPRTAD*SLPTRVC CSLSALHTGSESGDLGPGTQIEG KQNYSVTVWFLAR
8276	38644	A	8332	24	832	FEQQWGWA AAAA/CSSRQSTYSL RTGRSPHR PHRTQPR*NPSG TA APGPVPS*AGSS H*AGSG*RAW GPGSSRR*RSCT*RLRSRGRP/TS MRAFSPLSAIRSPKSGRDAHHQ ASHRPGCGAAAPAPAASAPAR APWAGADSKRASSYSRLEV LK VIPEAAAWTSAGSFRT*/PENLPI PVNEIMLLSNCPGRMGSVPLKR RLILGVRVLGERGPGAWCTCG PPTSMCTGALDLVSWAGRGMP WASQRR/PQGDRVRDKPGTCFL PSAVPVLPCV
8277	38645	C	8333	153	269	
8278	38646	A	8334	615	1275	QKRKTFNTTKCYNKEKGSWPR WPTGSS*CAQLSWRGMEGTSK YRTF/ILKH PGQEIPSEPTPPGP/S SLTCRATWLSRAAPQPHMKPR EP*ILSIYVAPSPSTIEKPSIGERF AIFITLLMRNGDLGEASCD AVK ALRQPWGKAQVEKNQLSQTKC PAMWHFESQNPALLIVREC LEG WKAYPQSTKEERLLHPEEGAG FTSSSQEKYVRVRGQRLWPT PF FSLQMIDRKERHLIPP NVIIKKR GVGQDGRLEAVSVHSSHGEEW KGQVNT EPSTETSRSGDPIMNP LHQGLKSDMQSYMESQ QSSPS ATHEAQGALDTQASWKKQ QQ LRKSRRAISSPQADGVQHG HEA RHCHDVLKRD RQTSWPCKMSS LAEVVAA ADTWLLDNGTMQA TGRAAQVREQ GKGM DLGQYIS CYLMTLSRAIKQKENKKVCFQ RLGKPRVKTASVQKK

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8279	38647	A	8335	423	998	PPSAVPHDHSSPART*PQSLSVI TAELEPVRAPSLIAFFHGHSA MCPFRWYRSRFSCLKQQRILAH PVNTFGIDRRHTIKFCLSAKQRP YPTITIRWQLSDNMVYTEKHIRI ISVTAAAIHPVIGSFPIPG/PIRA RALSTFLPVHIQRL*GVHFPSF SCRAGAGVL*SASWRQQVQRQ EQPVLRRRQQ
8280	38648	A	8336	2	218	HPSPSPGLKHRSSLGSPNPLL LPSGSFSLLPAGHSHGDGPSAS QMH*FQNQTHPVP*PDPASLPA VQSHQ
8281	38649	A	8337	76	129	
8282	38650	C	8338	1	410	
8283	38651	A	8339	651	741	
8284	38652	A	8340	1	612	
8285	38653	C	8341	1	729	
8286	38654	B	8342	1	313	
8287	38655	A	8343	705	990	TRSSCWGKEASLGDNRGVVA ALHHFTGAAARQHSGSPLERGP HPQL*SPRS*VEGHWLEI/LQA* S*VLPQKQPHQPARCWQLLSH WLPRPALLC
8288	38656	B	8344	1	588	
8289	38657	A	8345	220	678	MNAIPVASPCMVCSLIVHVLGS RPM*PW*RPTRFQWSEVQE/V MELTTMRPQPPPPPPPP*QQ QQQQQQQQQQQE*L*LAATPR APGTLAQGSLTPSQIFSA*RLKT DAAGSPGSPQTITDAELRVTLT VEGKSVPFWAVLPQSFTDSPH
8290	38658	C	8346	1	411	
8291	38659	C	8347	1	534	
8292	38660	B	8348	1	774	
8293	38661	B	8349	1	705	
8294	38662	A	8350	1	297	MPGHQKAPLRPAVSKK\ESMLE KGKIK*LLKPEGILPISEPPSNRIF ACWGKPAWTACCNSLRARR*R AISCCPSHW*KEKPPWRPIRKPP LPAWPIH
8295	38663	A	8351	616	988	DPQLQAGSGHIPGRNVCPGERI CWRGTPD/SDPSTPTY*PPLEKE VAQGRDLIHASGCLWS*IPLEA LQGPQGCQFSQVCCIPVIPTVE MKQGRQQLASDFDQDQDLEFY EILSWKPGILIIPP

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8296	38664	A	8352	1	1668	MELVPEEATAVSARAYTGRWP LDAAARTILVTAPGVGHTNIVL CGQASLDAYIKSICLKKEGRKE GKKKGKGRKERKRDYGGKEKK RKKGRKKGRRKKEKKKKEREK ERRKEEKEGKKRKKKEKERKKE KERKKLSIGKGVVYCLSSNTQK KQVSQTKIRVISTILFILAGCIVF VTIPAVIFKYIEGWTALESIFYV VVTLTTVGFGDFVAAHPSDHL CWVIVTCKGKYLLPDSPQEKAT DFSGVAQKRNEPQKPL/IWC/W ELRSYPTALMMQERVV*KEKP KAAAPNRRGLGTEKLEF*R*EV AAAVEPHAVLSMIGDWLRVLS KKTKEE/VCRPPLFKSPSPNLRL LGVAHHVGEIKAHAAEWKAN VTAEFRETRRRLSVEIHDKLQR AATIRSMERRRLGLDQRAHSLD MLSPEKRSVFAALDTGRFKASS QESINNRPNLRLKGPEQLNKH GQGASEDNIINKFGSTSRLTKR KNKDLKKTLPEDVQKIYKTFRN YSLDEEKKEEETKMCNSDNSS TAMLTDCIQQHALENGMIPTD TKDREPENNSLLEDNRN
8297	38665	A	8353	1	418	
8298	38666	A	8354	251	394	GAQVPTLLVGVLTVTISTVQNL AISLLGKAK*GEGILSVSGRMY RVL
8299	38667	A	8355	107	250	EEGHLLDPRMVDPMMACTM QLEKLQTLNASL*KQLGGGLYL AKPQG
8300	38668	A	8356	331	893	SITENCENKNPIPHVENKDIGTK YNSLKLPEHIRAEVMQPSKLD* VNP/LPSTCKERFVMQSHLART VGSSICNL*MSP/CFGIW*QLAE ANPAKCFP/GCWKTNSCTSSML CSKYVTPNGTVV*ITREGPISDD SILRFLLSMETKRMQGLLVSTA QPKGHQSSYQLHKGPEHIERS SSQPPVAAFGIH
8301	38669	A	8357	2	416	SGFRYGSDIVPFSKVDEEQMKY KSEGKCFSVLGFCKSSQVQRRF FMGNQVLK\PFMEDLRQYMFSS LKNSKKYAPTEAQLNAADALI DSMSLAKKDEKTDLTLEDLFTT KIPNPRFQRLFQCLLHRAHLPLE PLPSIQQ
8302	38670	A	8358	1	2130	
8303	38671	A	8359	1	1152	

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8304	38672	A	8360	1	320	FKGTAAPWPLSFARAAAGRQA GTDTRPSLRVRFPRERSARQKG RGRSVRLSAKSPPAKVETKPSG GSRTA*IFRQRSKQGKMGAKG KQAKWLLILRALICFSLSER
8305	38673	B	8361	1	1231	
8306	38674	A	8362	1	2276	GGRPKRLRTGNMVRSGNKA AVLCMDVGFTMSNSIPGIESPFEQ AKKVITMFVQRQVFAENKDEIA LVLFGTGTDNPLSGGDQYQNI TVHRHMLPFDLLEDIESKIQP GSQQADFLDALIVSMDVIQHET IGKKFEKRHIEIFTDLSSRFKSKSQ LDIIHSLKKCDISLQFFLPFSLG KEDGSGDRGDGPRLGGHGSPF PLKGITEQQKEGLEIVKMVMIS LEGEDGLDEIYSFESLRKLCVF KKIERHSIHWPCRLTIGSNLSIRI AAYKSILQERVKKTWTVVDAK TLKKEDIQKETVYCLNDDDETE VLKEDIQGFYGSDIVPFSKVD EEQMKYKSEGKCFSVLGFKCSS QVQRRFFMGNQVLKVFAARDD EAAVALSSLIHALDDLDMVAI VRYAYDKRANPQVGVAFPHIK HNYECLVYVQLPFMEDLRQY MFSSLKNSKKYAPTR/EAQLNA VDALIDMSLA\AKKDEEGQTPL KDLFPTTKIPNPSIFRGLFQCLL AQELLHPR\EAFFYPPISGRHIWE YAGILPAEGGQRKSSGFPLS*N* RTLFFL*FEAKEKGFKWTAQGI FQQQPWKVGPTAKKLKTGARG EPTFSVSSLAEGSVTSVGSVNPA ENFRVLVKQKKASFEEASNQLI NHIEQFLDTNETPYFMKSIDCIR AFREEAIKFSEEQRFNFLKAL QEKVEIKQLNHFWEIFVVDGIT

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8307	38675	A	8363	624	1992	GRKVVVVLPPPLGNQSTPGGIC LSAQLPL*RD**SASARCSSPGS *TSPPSYFLPDPRGPGRALQRFS RSPSSPGGNPA\SAAPSPKSKLLL GPPG\AAAATAAAAAGAKPELRH RLPPSSATTASRVRACHFLLAS AAATPAFSPPPPP\PASPSQRT KEVQRAGKAAESCPAAPELLGF GGSRDSAGELGGLSSDACV/PD SSEPGVRRPARRRTLAAHALTHA STHRTLPGSCARVAVPVALCK GGFT*PIFSPQYVTNTYPGEEGA RLGVLLIGREQTVSAILLGGSRSK APTTTVAVASAPPVTAAGR\TP HASIRIPRMLSKPSPPQAL*K GVMAPAQCPPARRGQAGLEGT \GFGKSPTRPHQLTAASSPCNGL IRIRQGQGGGKGRRWRGSSGDP GAWYCFRGRRRGPSCPSLRTAT LIPGLGGHGGSGDAASPLLGT RDGGPEAHLGKE
8308	38676	A	8364	123	248	
8309	38677	A	8365	1	540	MLEALGALNKPESSRPLIPELHL ASTAAANLGEHPNQRLKFAS QETPEESANAVPHYHKLCNRVS HVWGNRRGQHIRTMDNRP\I GKTTFV*IIVSPLALLALHWS DSQVRPAVL/QP/YSHGTGTP*W RSSSPCAASST*KSPYP*CH*QR LSQSPSA\FRPTLRRLSRSTRCRS WRRK

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8310	38678	A	8366	31	1429	RETRSCWAHYHAESSKHQKAK LKDSRKARRSIELIGPGSSQKGG DICSLIHLSSKLGILCYSKTGNM GGWEGGMQLRVSSSENSMGKSS RERAAADLPQGSCWHELPGRLLI NTRISLKPRHVWNLSSVLCQVV KKVKSMQMFHMPITSAMQGD RLGICVTQFDPKLLERGLVCAP ESLHTVHAALISVEKIPYFRGPL QTKAKFHITVGHETVMGRLMF FSPAPDNFDQEPILDSFNFSQEY LFQEQLYLSKDLTPAVTDNDEA DKKAGQATEGHCPRQQWALV EFEKPV/YLPSAVPGDWLQARC GHS\PNTCRLAFHGGQSCSTG*RT GTTPTASCPG*RCTS*STSMGLV ERAMDDYSVIGRSLFKKETNIQ LFVGLKVHLSTGELGIHDSAFGQ SGKFKIHIPGGLSPESKKDPDTP PSKTGPGWPVGGQPGRRRSPSG ANPHKMGWLTRPFKRYVFDTH KRMVQSP
8311	38679	A	8367	3	119	RSPREGGGHRRGPSSGGGRCRRR PGWAGNEAM*PDRRARVVGIE VPAAEEGGAAVAQDGLGMKR CSLLRDLL
8312	38680	A	8368	3	389	SFATHTAGPQPPAA/PAPKRMA ARASWGRNPPRAPVRTSAAAA RAAGTRRPAPARVACPLPAGPG SPRRPPRAARTRRARRRPGPGR AAQQSAGRRWTPPAPAPSGASF AAPAAGSASPPSHRRSAPGGGS TQSSLLSPSSSALHSSPPSRPWA ARHERSSWS*/PRSALPPTSTEP/ GPGPRRAPVLGTRSCGRGAGQL E*EA*GAA*APPPLGWT*LLCV HVTLGNAVSHWVSCGAAPPHG GVGVGYRARSREGGGHVRPA/ RTREVPPSPRMGWNEAM*PFK* VSSRWPLRLPSRGMAAPRGA AAGGARRVEGWEGASLLSGSA PGSARWPRAAPAPASQVGARC AAGAPCPLRPRVWRRGAVGAE NAPSELAASTPAG/GGRGAGSG SSDLAGRGAVAAARFPGG*GHSR QQHGAEKDGGQGFLGSQPPPR SCAHQRRRGACSGNAAPSSSAR RMSASSRSRQPEKATQSRNSA RSSAARPRSRSTAVSRAQVDTA SSCAFWRVFCSSCRRFCESAEP TVSTRWW

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8313	38681	A	8369	3	1130	LDFQHHNYKAMRKLKQVQE QCPNITRIYSIGKSYQGLKLYV MEMSDKPGEHE/LGYWHGEW GEVGTGQGPRHEPAASPHVSPG EPEVRYVAGMHGNEALGRELL LLLMQFLCHEFLRGNPRVTRLL SEMRIHLLPSMNPBGYEIA YHR GSELVGWAEGRWNNQSIDLNH NFADLNTPLWEAQDDGKVPHI VPNHHLPLPTYTLPNATVSILR AAVEVLWGADPCLCLLPLLTCP IQVAPETRAVIKWMKRIPFVLS ANLHGGEVVSYPFDMTRTPW AARELTPTDDAVFRWLSTVY AGSNLAMQDTSRRPCHSQDFS VHGNIINGADWHTVPGSMNDF SYLHTNCFEVTVELFCDMFPH ENELPHEWENNTDA
8314	38682	A	8370	1	2229	MWGLLLALAAFAVGPALGA PRNSVLGLAQPGTTKVPGSTPA LHSSPAQPPAETANGTSEQHVR IRVIKKKKVIMKKRKKLTLTRP TPLVTAGPLVTPTAGTLDPAE KQETGCPPLGLESRLVSDSRLE ASSQSFGGLGPHRGRLNIQSGLE DGDLYDGAWCAEEQDADPWF QVDAGHPTRFSGVITQGRNSV WRYDWVTSYKVQFSNDSRTW WGSRNHSSGMDAVFPANSDE TPVLNLLPEPQVARFIRLLPQT WLQGGAPCLRAEILACPVSDPN DLFLEAPASGSSDPLDFQHHNY KAMRKLKQVQECPNITRIY RIGKSYQGLKVYVEMSDKPG EHELGEPEVRYVAGMHGNEAL GRELLLLMQFLCHEFLRGNP RVTRLLSEMRIFLLPSMNPBGY EIALHRSS*LVGLSEGRWNNQS IDLNHNFADLNTPLWEAQDDG KVPHIVPNHHLPLPTYTLPNA TVAPETRAVIKWMKRIPFVLSA NLHGGEVVSYPFDMTRTPWA ARELTPTDDAVFRWLSTVYA GSNLAMQDTSRRPCHSQDFS NGNIINGADWHTVPGSMNDFS YLHTNCFEVTVELSCDKFPPEE* ICPKEWENNKDALLTYLEQVR MGIAGVVRDKDELGIADAVIA VDGINHDTVTTALGPGIWRLA* PPGDYIMVDLPSSEGYHSVTRN

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8315	38683	A	8372	409	517	HFRSAGVCW*PPPLSVHGPR*H FRSAGVCWSSTPDPVCLGITSR GCRTAKIAAFSFL
8316	38684	A	8373	957	1230	
8317	38685	A	8374	1	2658	MVEEVLLDNILKS VFR LG SILPI TFSFPSDSQG PLLQVCRS LLEIH SRPCLPGYHQWRLQNSKDCCL FLPLEASSQRGTCQMPAGALFY KVSVDPFWEVSSSQETWGS GIH LRRQSVPYQSSA VLGDLLFSS EPACKNKSAEAVPTAAPSPRDA LSREESREAVWPQRLSHAPM GSAQLELPGGFVYTVRRKLPTQ ASVMLDAPPATKLEHPRSSSDC CVGSKNF KPVDLSLLGSMGVG SVELDHLAPWLQPPFQESERFC LSGVVPVSPPLSEEINHALPKATV MASLGAVARKDNADSLHVPPP TPLFASRPVTALKYWQAPREDL QPFTRVTLHWGKGNDQTFWGL VDTSSSELTLTPNDPKHHYGPIK VGAYGGQVINGVFAHIQLRVN PMGHWTRPLVIFPVPERKISIDI LSSWQNHIGSLIGRKT DGSWR MTVGYRKLNQVVTPIAAAVPD VSMLEQINPSPESECLKMSHQI TMRPELPIMNWVLSDPSSHEL G YAQQHFIIKWKWYICDRAPAGS ESTTSPFITQWVHEQSGYGDRD GGYTWAQQHRLPLTKNDLAM AT/AECPISQQ/QRPTLSP*HGV/I PRGDQPATWWRVDYIAPLPSW KGQRRFFTRIDTYSYKFIYPAP NASAKNTICGLMECLIHCHGIP HSIASDEGTHFIAKEVQQWAHA YRIHWSYHVPHHPEGWGKVLQ
8318	38686	B	8375	1	3258	
8319	38687	A	8376	3	196	DWESCQNC*PQQPRLHGTHW DPC*DME/CPSVCPQSPCPSPLR DQWTIPCPDPLSPQTMAAGR W
8320	38688	A	8377	248	423	
8321	38689	A	8378	407	683	LSSYCVHAGCYPREAAARMISF SPSQRWKPFGESWRPPARRGT CTPGAHP RPSPRAAGPAHRP/ PPP/PSELPRAPQRPNRRPG NSGPV

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8322	38690	A	8379	11	888	TGKLHTSVICNSTELTSWDSRR LFLKGKPLLSAGAGVNVMPST APFPAPCKGSLRGNPSRPTHPS/ RSPQLERDTGGASFRVDEGEER GASSGGS\RDTEGGSGAVPFGE SWRPPARRGTCTPGAHPRPSPS PRAAGPAHRP/PPP/PSSELPRAP Q\GPEAPTLGQPHGRGLFPPLFK LSKLYWPLGETRSRPRPRPYCQ SPGPGVTERGRRWSAPRAPGAP RSPRWRRQSGPGALPRPRVNPC IQHGSEASYAPAL*WALRIPQG GNTSSADEPADFTPNQQADQM PCLHSCSCG
8323	38691	A	8380	1	3135	
8324	38692	A	8381	44	2279	RQTVGDAQPHHPPQPPRPSFP PFPALPCTPAPQLPPSPSCLREEF PSSPMGQTPGTWSSSGGPWTSP PHSSSRRLASPLAPLSVIPSTSQT MARSSSQSQTTRFSPTPTHSSQQ ASQAGTLWPWWLRSGMTLTSP LVGGPHFIRNTRRSMVNTAC*S SRPSLGLERSQTTGATRPGGP*R SRGSMPTPILPSGPSGATPTKPS SPRTGAGPMPCFSTRAVGCST WPSAQATRCSWASLVEMAISK TAH*CPSQCGRGIALIDS*IPTQA SKGCSSTGYTGKKGPTTVSSAC SG*RASLGGPAGAGTRSPALVP GSRDDGTYDSNPSA*VAGASA VGSCAASPLGEEACAAATGPGE SFSEGWHEQ/TS LAVPGTGAT ELVLPLEG/HSPTSVPCTSRGGP TWAVATYRPPSPPGCSGTPTSP PWMVSVTPSMGWGTSCWSGP KTGTTPSCFRAAPPRLAQPRPPT SSPLRLST/ASSSLGPVTVQWLL EPHDAIRVLLDNQTVTFQPDHE DGGGQETFNATGVLLSRNGS\G SRPASTAGPPSR*SRSPSTSTPPP ASRPSTRTARRGSWGSGITIQRT TSGCPMAPPFPQGALRRCFSTL E*PGRSTGQASLARGMTSCLPT SPLFSTHNCKKTAPGLNI*SPTV TEIAHASMTWPWCATQASDFTR GKSVKTTSRRTPPSISTRPPSMV VV*LKPTRGRPR*FSTPAMLRM

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8325	38693	A	8382	1	2900	MVWGFTCSTTATLEGQSTAAS SRTSNQDISASSQNHQTKSTETT SKAQTDLTQMMTSTLFSSPSV HNVMETVTQETAPPDEMTTSP SSVTNTLMMTSKTITMTTSTDS TLGNTEETSTAGTESSTPVTSV SITAGQEGQSRTTSWRTSIQDTS ASSQNHWTRSTQTTRESQTSTL THRTTSTPSFSPSVHNVGTVSQ KTSPSGETATSSLCSVTNTSMM TSEKITVTTSTGSTLGPNGETSS VPVTGSLMP
8326	38694	A	8383	3	468	SSPPLGHPRPISQSCPRPAVSCSR GPSALLCRPLLPEDAP/P*GSS WP/EGPLWGPRYPSVSVGNH WSGAGVADE/PAAPSRPAGARR APSGGRPAAARCSRRRASRSSR PGPPAGRAGR*ACPAAARSABA AAPRPPGAP*CGSASSATAPAA APP
8327	38695	A	8384	3	1319	DSSRLCSRSSRGHTVGLWGQS PGLGTKGRGGGG*EDPPGTPR GQDPSHSAKQ/PPAGLPAGVK WGPS/SSPPSPPPPAKRELQGR PKFGRCSEGRAGDPGPS/GCPR AKQTHSLGTAVPVVVIYPPVH ALSPAANRTLN*NIISSQLGTGP MVPGE*HGPRGHA*PRHLPK DPPQG/PAQR*RGCRSEVQRRP GTL*GSPP/GNSHNLGPMP *PPTAR/PQFPNPQDPRPLGQSS EPLPRCPKTLCKTRHPDLRGRG KQPRGWAQVPPGEVFGGNGA QLEA*EGARMSASP*P*SLESSD TTASPPSQGLFTAQKGLWGPQR RLGALWLGRRESEKTSWRLQ SQVYWSCREEVEKCSRQGARL GQRRGWENVLGKSGSASECLS CPFCASLLAMPSCGPWELSKVA QCFPLKTGHPGPQEGSNNLKVT QQS

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8328	38696	A	8385	1	771	HSLIHSLTHSLPSPVQSPA WLR PLCLSAPAT*ATA/CRVCLPGSC DSCSDSWQVDDCPESCCEPPCC APSCCAPAPCLTLVCTPVSCVSS PCCQAACEPSPCQSGCTSSCTPS CCQSSCQPACCTSSPCQQACC VPVCKPVCCVPVCKPVCKP ICCVPVCSGASSSCCQSSRQPA CCTTSCCRPSSSVSLLCRPVCRS TCCVPIPSCCAPASTCQPSCCRP ASCVSLLCRPTCSRLSSACCGLS SGQKSSC
8329	38697	A	8386	1	453	AQSLGRARPWRGASSGRVPDS\ RLE*TPTVCLA/PEHGIVAATAS LGTFLPTQWEGHNGCYQRS LFP PQSMPTPPCPASETP/PVFRYRPP PSPGSSPRSITAHVPVPLGS\SVNP PHPEVWNL PCTWKRLATSLQQ KFTFGPKLGITNVDSDSL S
8330	38698	A	8387	39	630	IGTWRFGGSDRQEGQSRQNC EANDWPVSTALA\KPRGATGK NKSPGNDPAAA IATAGAAATA GPGSPCSLQN/RPHLLPFIS*APP EG*TPSTQDRPWYSAGAA*ASV KCR TGAVQKQLL*NR RFP GS PAPAQTADPGRGGGRGTGS/GV PSTGSSSDWQERPWPCGGMEPP RLRCLLRCSGSIHSPTALQSLRN HQ
8331	38699	B	8388	1	2673	
8332	38700	A	8389	10	281	TTSDPYHPAPEIGLG*SPN/GGP MQGDLPGASGKEVSFL*GNVN EDIHNSGCVWQPSCDHLARQP KNKAVTMETKKRQKDTGSSLF SSSCS
8333	38701	A	8390	3	416	EYGQQCQCHKRPRGPF GFHSPG PRGGSYISDL SGQESPEAGGFP PRISALRPKSNCSFLRPRGRGS* YPAAGRPRAPGGPALQLSPR/PH PAAPPCRAAPQPKPPRRDVEPA P/PKLHPPP/GGPAPRRQGQDLP GRLQP

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8334	38702	A	8391	98	1286	TMPPTRFLAHLDPQAYVCFCCV EGKERNLSRSKHTSPHSSTPAH LLSKPPRSSEVVYHSQVLPOTP RPTSQLHLELVLPVFARLPGHR GIEREQSSPYS/RRGHHRGYTEE D*VNS**DGVEPYGKVAAGA PQRGRGYCCPWRRQRHGRHR/ RRPPIALQRRQ/PARTPSARPPIA LQRRQ/QARTSPRPPIALQRRQ RHGRHRPRP/RHRSAEKTTART PSPRPPIALQRRQRHGRHRHGH HRSAEKTTARTSPRPPIALQRR QRHGRHRPRPPIALQRRQRHGR HRPRPPIALQRRQRHGRHRPWP PIALQRRQRHGRHRPWPITLQ RT*RHRCHRHGHPL/PLQRT*Q HGCHRPWPPIALQRT*/PAWTP AMATHRSTKKITAWTPSPRPPI ALQRT
8335	38703	B	8392	128	457	
8336	38704	A	8393	348	1355	GNEGKAGTSSCWDPKPAAPAV ASSLAS*GASNSTPSAAGSTVA SASWLVESWSPGVTVVGVTEG SSKLGPMLLSTSTPDEAWSPSS CLLLVAPGVWLLPEAGFLLGIH SQGAAPPSPSSSCFSTSSFSLS SSSSSSSLPMATPCDLGFSKCG SRLSPPAKALLEDALTPRGGA* AWMRDRASIGADPVWLCPSLP SSFLCFSCLKAVCTSSA/PPCYTT GFLSPTQKTKPSKQGLGVCSSQ VSRHPALGQLLDIAEDKSPPH SGSTICSLWLSSSRAPCDRCTSR PSSKVQGYLCQQDSRSRTRAG WKTPTVVGRHVPVKIEKESIRP ANFG
8337	38705	C	8394	154	219	

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8338	38706	A	8395	3	1054	LYLKVCYI*KELFEFSNLYKHPS GEEVWERILRV*DNGGRN\KLL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWITRWP TVSELEMPDLPWFNVEEGIKRL REIGMVEWISHFRCTHPSWKGP EDIPLTNALQNRVRAAPASLK SLVIAL\FCMSDATAAGTAVTQL QNLNTMGIIGSRGVRDQVVAL NHQRQVG\ANRQGT\PR\Q\RG T KKRTR*PGQAKRPGPKERGTRS HAYAHTSVTT\PKNNRH\DRPS QRT\PPQKRDAQHQTET\PTTP NTSRPPSHVSFFRSKKRRRRPQ HEERNKRT\RT\EEEEARERNRAN KDDTKRQPPKKTRENNRQLWS
8339	38707	A	8396	140	398	
8340	38708	B	8397	15	192	
8341	38709	A	8398	1	1167	AGTARRAPESSRRRAVAAGHPE TMGKLVALVLLGVGLSLVGEM FLAFRERVNASREVEPV\EPENC HLIEELES\GSEDIDILPSGLAFISS GLKYPGMPNFAPDEPGKIFLMD LNEQNPRQA\LEISGGFDKELF NPHG\ISIFIDKDNTVYLYVVNH PHMEVHCGRIF*ILREQQRSSGY YL\KTIKTWNFFKSVNDIVVLGP E\QFYATRDHYFTNSLLSFFEMI L\DLRWTYVLFYR\PREVK\VVA KGFCSA\NG\TVLSQTQKYVY V\ADVAA\KNIHIMEKH\DNWDL TQLKVIQLGTLVDNLTVDPAIT GD\LAGCHPNPMKLLNYPED PP\GSEVLRIQ\NVLS\ESPRVSTG YANN\GS\VLQGT\WASVYHGK ILIGTVFHKTLYCEL

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8342	38710	A	8399	89	1685	KGPLLLSLPCRAGAMAETSLAT GACGEAMAAAEGSSGPAGLTL GRSFSNYRPFEPQAFGASSPSIWA RLDGA FSGNERAEGCKVPQEG RLLKLLAG\LTRPADVRPP\LG RG \LVGGQEEASQEAGLPAGAGPS PTFPALGIGMDSCVIPLRHGGLS LVQTTDFFYPLVEDPYMMGRIA CANVLS DLYAMGITECDNMLM LLSVSQSMSEEEREKV TPLMVK GFRDAAEEGGTAVTVGQTVVN PWDLLIGGVATCSIANQFEFIM PDSAVVGDVL\VLTKPFRNPGL LFNAHQWLG*FLERWD*S*RW WFSREE\VEL\AYQEA\MFNMA TLNQNC CRV*MHTFNAHAATD ITGFG\ILGHSON\AKQQRNEV SFVIHNLPIIAKMAAVSKRASGT VWGFFQGTSAETSGGITGFCLP R\EQGGLAFCS\EIQLPKYGRGS PKAWIVGIVEKGNRTAPDPLTS PRVIEVLPRG\ATAAVLAP\DSS NALLLSLAREIERTEVVWTL EP LSTITDGSQELIVKKFPKKAACI VYPAALSR

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8343	38711	A	8400	30	2391	ARGRPLLAARSSRPGPRLPFK RAGPAPAAPHRGDQEARWFSG AAPSRPPAPRFSGPAAIFLSAQ GPPSGAMQPTLLLSLLGAVGLA AVNSMPVDNRNHNEGMVTRCI IEVLSNALSKSSAPPITPECRQV LKTSRKDVKDKETTENTKFE VRLLRDPADASEAHSSSRGEA GAPGEEDIQGPTKADTEKWAE GGGHSRERADEPQWSLYPSDS QVSEEVKTRHSEKSQREDEEEE EGENYQKGERGEDSSEEKHLLE PGETQNAFLNERKQASAIKKEE LVARSETHAAGHSQEKTHSRE KSS/QFSAA*EAGSQENRPQESK GQPRSQEKSEEGDEDATSEVDK RRTRPRHHHGRSRPDRSSIQGG SFPSVEEKGHPQEESEESNVSM ASLGEKRDHHSTHYRASEEEDPD YGEEIKGYPGVQAPEDLEWER YRGRGSEEYRAPRPQSESWDE EDKRNYPSLELDKMAHGYGEE SEEERGLEPGKGRHHRGRGGEP RAYFMSDTREEKRFLGEGHHR VQENQMDKARRHPQGA WKEL DRNYLNYGEEGAPG\KWQQQG VLQDTK\ENRVEARFQDKQYSS HHTAEKRKRLGELFNPPYDPL QWKSSHLERRDNMIDNFLEGE EENELTLNEKNFFPEYNYDWW EKKPFSEDEVNWGYEKRNLARV PKLDLKRQYDRVAQLDQLLHY

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8344	38712	A	8401	73	1922	ILPVPPIIP/CRQVLKTSKCPTRQA DLGHCDPCSYSLHITFPADASE AHSSSRGEAGAPGEEDIQGPT KADTEKWAEGGGHSRERADEP QWSLYPSDSQVSEEVKTRHSEK SQREDEEEEEGENYQKGERGE DSSEKHLLEPGETQNAFLNER KQASAIKKEELVARSETHAAGH SQEKTHSREKSSQESGEETGSQ ENHPQESKGQPRSQESEESEE DATSEVDKRRTRPRHHHPRSR PDRSSQGGSLPSEKGLPQESEE ESNVSMASLGEKRDHSTHYR ASEEEPEYGEGNKRGPVQVQA PEDLEWERYRGRGSEYRAPRP QSEESWDEEDKRNYPSELDK MAHGYGESEEEERGLEPGKGR HHRGRGGEPRAYFMS\DTREEK RFFGEGHHRVQ\ENQMDKARR HPQGAWKELDRNFLNYGEEG APGKWQQQGDLDQDTKENREE A*VFKINHFS\SHHTAEKRKRLG ELFNPYYDPLQWKSSHFERRDN MNDNFLEGEENELTLNEKNFF PEYNYDWWKKPFSEVDNWD YEKRNLAR\VPKMDLKRQYDR VAQLDQLLHYRKKS\EFPDFY DSEEPVSTHQEAENEKDRADQT
8345	38713	A	8402	1	381	
8346	38714	A	8403	1	444	MKLIVGIGGMTNGGKTTLTNSL LRALPNCCVIHQDDFFKVPALA RGVLES LDMEAMLDTVQAWLS SPQKFARAHGVSVQPEASDTHI LLLEGFLLYSYKPLVDLYSRRY FLTVPYEECKW/KEKYPQLHSP *SPRPLRWPRVAHVPEV
8347	38715	A	8404	3	421	
8348	38716	A	8405	3	4065	SAPPDVTITYTSEHSIQVERPQGS TGSRTAPKYGNAELMETGDGV PVSSRVSAKIQQLVNTLKRPKR PPLREFFVDDFEELLEVQQPDP NQPKPEGAQMLAMRGEQLGV VTNWPPSLEAALQRWGTISPKA PCLTTMDTNGKPLYILTYGKL WTRSMKVAYSILHKLGTKQEP MVRPGDRVALVFPNNDPAAFM AAFYGCLLAEVVPVPIEVPLTR KDAGSQQIGFLLGSCGVTVALT SDACHKGLPKSPTGEIPQ

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8349	38717	A	8406	10	580	KQCALLTFICSLPMSFGFAPAIT VTVVN/PRHPLIRDMRLRIKEDE DDKTVLDLAVVLFETATLRSG YLLPDTKAYGDRIERMLRSLN IDPDAKVEEEPEEEPEETAEDTT EDTEQDEDEEMDVGTDEEEET AKMS*ALLTFICSLPMSFGFAPA ITVTVVNHFVLCSKTGSQVFRS ENWKVWAESSRGDHDCLDL CSVLCWGRATATGAFSCPAQLIF AVSSSSSVPTSISSSSSCSVSSVV SSAVSSGSSSGSSSTFASGSMFK LRRSILSILSPYALVSGKRYPD SVAVSNKTTARSKTVLSSSSSLI RRMSLSISGCRD
8350	38718	A	8407	1	1967	MTMAAAAVVARGAGARAATA AALRGGCGTAARGRPCAGPAR PLCTAPGTAPDMKRYLWERYR EAKRSTEGTKKYTTSLNARHY YTHFTEENEDEINSSSSYASQKK TFEINPRHPLIRDMRLRIKEDED DKTVLDLAVVLFETATLRSGYL LPDTKAYGDRIERMLRSLNID PDAKVEEEPEEEPEETAEDTTE DTEPDEDEEMDVGTDEEEETG KESDDPMAYIHFTAEGEVTFKS ILFVPTSAPRGLFDEYGSKKSDY IKLYVRRVFITDDFHDMMPKYL NFVKGVVIRKKLVKTLDMIK KIADDKYNDTFWKEFGPTTKL\ GVIEDHSNRTRLAKLLRIQSSH HPTDITSLDQYVEK\WKEKQDK IYFMAGSS\RKEAESSPFVERLL\ KKGYEVIYLTPEVD\EYCIQALP \EFD\GKRF\QNVVQGKECKFHE S*ENLRK**CKSVEQRISALCLN W\MKDKALKDKI*K/ALWVSSA ALTESPVLLLVAQPVRDWSWP TLGE/RSMKAQAYQTGGHLL QIYYAESERKHFEINPQTPLIR D\MLRIKEDEDDKTV\LDLAV VLV*NRQLGSGYLFTQTLKAY GDW/RLERMLRSLNI*PLMPK VEEEPR/EEPEETAEDTT\EDTE IQDEDEEMDVGTDEKGRTSKG
8351	38719	A	8408	181	462	GMAASDSSKTGFRGKQVVAG AVGDSAKESQGQPPGAPPRRA AGL/WRRHHCSF*AD*TTNAPG GKNPRPGKGAGGEQGTAGDFT CQMPRTQNTL

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8352	38720	A	8409	3	228	STGVPVSQQNLPLEKASVLFNT GALYTQIGTRCDRQTQAGLESA IDAFQRAADMSPPLTRRSLGP TRWHQGTPH
8353	38721	A	8410	129	311	RCFQPDCHSTPGTGPRRSGCL LSSAAPW*KPPAAPRTPHSRSH NRGPRRQQHARHQDDP
8354	38722	B	8411	1	789	
8355	38723	A	8412	1	933	TVVLKDFILEHYSEDGYLYEDE IADLMDLRQARRTPSRDEAGVE LLMTYFIQLGFVESRFFPPTRQ MGLLFTWYDSLTVGPVVSQQNL LLEKASVLFNTGALYTQIGTRC DRQTQAGLESAIDAFQRAA\GP TRGGRASTYEMTPAAS/PEIPGA SLQREE/QWTGAWTHQQIYPQP GTPP*SPPQAQPSRFLFAMDFA ATTSAIGSARPSTNQS*GYFHTG RSWQPVA**ECHILRGNAENVL HDLLSH***RQN**NQENLQEAF LPELGHQQEQTEVSQHLVPIG RGCTASGQEEAALPFQPSQLRQ FLVL
8356	38724	A	8413	1	389	
8357	38725	A	8414	1	506	
8358	38726	B	8415	125	700	
8359	38727	B	8416	19	338	
8360	38728	A	8417	1	3335	MAALWNTCGAWKNMLIPECH SQLLRVAANPKVREQVRLELSF VNSDLQMLKEELEGLNISVG VY QNTDEDGYLYEDEITDLMDLR QACRTPSRDEARVELLMTYFIQ LGFVENRFLPPTWQMGFLFTW YDSLTVGLVVSQQNLLLEKASVL FNTGVLYTQIGTRRYRHTQAGL QSAIDAFQRAAGVLNLYLKETFT HNPSYDMIPAMLSVLVKMMLA QTQESVFEKISLPGIWNFFMLV KVAQEAAKVGEVYQQLH
8361	38729	B	8418	1	1689	
8362	38730	A	8419	2	722	CPGGSERGQRQPCGCRSRGRTE PGFSPC*KSA PRPQAVSLKSASP RPSSSS\GPAGISSPGRESRSCGT QNILGPFQLVSG*PL*GR* CQFP AAAEPPAVPL*AEDISA/GPPAV *AP/SGLAHLASG/PGPLPLGG AGLV*QSI**GGHQGADEGP*G EMDAKEAGPAAQNCDLHVCPG ARGAEGAPGEGCIS*QPHAPDA L*AASELPKDELLRQCSGG*RC SPAGSAAPRAGSSAVLEPQ

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8363	38731	C	8420	144	439	
8364	38732	B	8421	1	4747	
8365	38733	A	8422	1019	1880	YCCLPRGGNAGCQTRQDPSCRPGPGSQGLSLPPGR\PGA AVECG ARSRGWGQQDGPSPSPGKAQ VPAEPAPPQT\PGPPEDPCLGPR NEVPDGG/GARQSHHPGPPRSP GPEGGSPQAAARLVDWRVSRP QNQLPNPGP*DQPPRPAIPTATP SGCNGPGFPRAPRRLSSEEEAP SRAGPEEEAPPTYTPRLRRGRP ARGPVCR/PPAGPPAV*PEFRRF ALPRASVSGFQSS\PVAAGGAP DPGPGRLLGYTDAHGDLPLTN TTACTGPWPAGPRHCASGAEA
8366	38734	A	8423	240	763	VLVARRPQRPGHEPAVLQQ/PAGP/PVPRKPNPSPSRSPAGLRP PGRAGPLTSPRCPLPAFTGHR T/PVGPVRPKAAGPRRRTYQGR GMGPRPRRRPVVPVGGERSHS HPSGPPLRSPGPEWGLTSSSCPA RGLEGVSA/TQNQLPNPGP*DQ PPRTCHPHGYTQRI/PSGPPLRSP GPEWGLTSSSCPARGLEGVSAP RISSRIQGRRTSLPEPAIPTATPN GYIGSGFPAG
8367	38735	A	8424	2	609	PYSISIVSTGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGK VWCKIRKKKCEPGFARVWVKG PRYLLQDDAQAKVVNITMVAL KLQDSGRYWCMRNTSGILYPL MGFQLDVSPAPQTERNIPFTHL DNILKSGTVTTGQAPTSGPDAP FTTGVMVFTPGLITLPRIP*PPPD LPPRQATASLLPAPPARDPGGP WGPRQ
8368	38736	A	8425	1	252	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8369	38737	A	8426	3	1581	ALHCAIRHEDKWPTAVRANGH LLLNSEKMSKSTGNFLTTLTQAI DKFSADGMRLALADAGDTVED ANFVEAMADAGIL\RLYTWVE WVKEMVANWDSLRS GPASTFN DRVFASELNAGIIKTDQNYEKM MFKEALKTGFFEFQAADKYR ELAVGRDAQ\KLVFRFIEVQTLL LAPFCPHLCEAHLGHSWGKPG LQLWNCFPWACGRVPV*WKFL IHSSQYLM EVTHDLRLRLKNY MMPAKGKKTDKQPLQKPSHCT IYV\AKEIYPPWATLPPCLFLT V KHFEGQLTGKTGLDNK\AIASE LGSMPELK KYMKVMPFVAMI KENLEKMGPRILDQLQEFDEKA VLMENIVYLTNSLELEHIEVKF ASEAEDKIREDCCPGKPLNVFRI EPGVSRFLLVN/RPQIPMAHFL NPKLEIRQGD\TVIPIIRRLMKM NRGI*RPFPKVKPGWRI**SHCW GPRRSSCPWEKEYTREDPPFPE ACLFSDVDLMSKKIHLTENGIR VDIGDTINLSGSLNSCTLEIYPG FLGILL
8370	38738	A	8427	1	1052	MIKNIGPQYLTPSFLGEQEGDEE EEGHIVDAEAEEGDADASDAK RKEKQEEV DYEEEEERE GE ENDDQM QEERNPHRRGARKT QEQDEEVGL/GH*GGPVP SRPP DAAPETHPQPGAPGA\EA VERR VQAVREIHPFIDDYQYD\TEESL WGQVTVKLPLMKINFDMSSLV VSLAHGAVIYATKGITRCL\NE TTNM\KNEKELVLNTEGINLPEL FKYAEVLDLRRLYSNDIHAIAN TYGIEAALRVIEKEIKDVFAVY GIAVDPRHLSLVADYMC FEGV YKPLNRFG\RSNSSPLQQMTFE TSFQFLKQATMLGSHDEL RSPS ACLVVGKVVRGGTGLF\ELKQP
8371	38739	C	8428	154	219	
8372	38740	A	8429	1	1584	
8373	38741	A	8430	200	277	

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8374	38742	A	8431	3	877	LYLKVCYI*KELFEFSNLYKQPS GEEVWERILRV*DNNGRNIKL YQAEFIDLGPVSRDSAFNVAAQ GVKKGSNRLFPWLAEIWIKKW PTVREVEIPDLPLFNVEEGIQKL REIGMG*WISHFRPTHLSWEGP EDIPLTRPSQNIFVRAAPASLKS PVIALLYMSDLMVRTAVTQLQ NLNTMGIIGSQGGRDRVAPLNH QRQSGHGYHNGQQRESGNQNS LTGVELWHWLINHVVSRSVD RKPTTFLNLNYKQKTSRSGNRK TSLNYKNRESRPLNQFPDLSQF
8375	38743	A	8432	1	282	
8376	38744	A	8433	1	281	SVHTGHHHHYHHRHHHHHHHQ HQLHQHQHQGGGHHHHHHHH HHH/HYFQ*ATWEMLLWVGHS HL*RQP*KQHEHRDDVSQAGS VPCASRGFHIR
8377	38745	A	8434	64	302	
8378	38746	C	8435	133	262	
8379	38747	A	8436	1	1962	MFSIPTGQLRAAASGARRHRGR GSIGGPFHAIQGPVETDTTAQH ETVAPDLAHPSPASRGPRPY/G RHLALDEPFLHISGALF*DSLAV *EPPE SRLDARPGARNSNSRCPI TA/RPPDTDMGTPSAQGA KSSA\ FAQLPPPHNSTRRAPAGDMPPS MPGATELLACSVAG*TSELRG GGFASSLSGSPCSKFGSPASSDA WPRLQPRWPVTFPEAQPLEVPG GTEHGCSPEPLSNSAAQTPFF PPLHPTAPSCPLGLPGSPPGTSS TGDYIPT*DQSGTSKLYCPLQQ GGAEAAHCV/PA/PEQPETNSKR KGETPTPN/DKEGETPTPNEKKE KHQQQTKRRNTNTKRKEGETP TPNEKKEKHQHTKRRNTNT KRKEGETEPAQGGTNPRVQQ SPAAL*CFSY*SECQACPSDES AGARFTAGSAPDKGL/PPGPSS WAPSS*HLILATTVHLLVTRPC* PPSCTGPSGLVVGGRPSAHH HSDLLF*SSAGKPDSWPCWTMS AMGILRPRGRASGAPGSATPFP GEFQEAHVAPPVQPSTAQSLPAP CLPLGASGGPRQHPPDVSRGG DRGLQQSVLSDAAP*PGVRGNP PRGARWGARAAPWAGPSAPHS PCPQAPGPRDPLVYPSPGTEAQ MSCLTPQFLQILLCDFE

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8380	38748	A	8437	438	699	LLEGKLTNRKDIHTKTPSVCHH HRGPKVDKTTKMGKKQSRKAE NYKNQSASPPPKDRSSVYQQRN KAGHRMTLMS*EKKASENQTS PS
8381	38749	A	8438	1	1334	MDGRLYSVTIQPSVNLQLLL SGPKSAVLVVILMCSETNLSF NEFSSEFKTTSPEKMSIRKPQEK SADGKQFLQNDKRNPKLGNTQ TLLRNDVSGLLSRTKRNIVPPG WYSVYVTNNYVFKKSPKAKK VSÉSTTKNDPVKNIHIESSHNID LNKIAMNSNLQVVVKRLEDTIS IAKKSNNQPLSEGYKASKKLI EIDGKDQHADRNMTLTLNRMT CKEQSLSKSVVASGNIINSHCM PTVDLNNKRLLENLKKSSILDMG RLISSVENVPAKYEGTESSSVSN YSSPIKLMFLSEVKSSSEG VKYTL TSVGTSHSNVVLPEKPTTHHV TEEKTETNEDISNANSENYHSS HYDTDTFQRELNKFHSHAKETA GSSTMFIGDINS DKPQEEP KDNS SSATDPSF/NKKTR*TKKNRSPS CETD*ATNWKT TKA*N*SNKH
8382	38750	A	8439	115	523	QFFFSLSQALKLDQAIHISMDAF HSVSELFASQSRRLDPAMDLL VLSQGHQTNILDIVHIHKEALT KVTENRQHVAEGKTE/SAEADD VRIT/VNRNSFTTSLEIHHFHPI*I RDMKSQMQHFLQQEILFFQKSS RN
8383	38751	A	8440	1	461	
8384	38752	A	8441	3	319	
8385	38753	A	8442	112	480	IFSSLNVAYPWIEKKVDGSKC PIQQQLERKIKNFVLYLK/RLQL TKCEFKN*RLNFIRVNKNEKY VCT/SYHTKLLFNNLHMALILIV FKYQSFFSLHSCNQPHAKVLE PALELQDEDEGMVH
8386	38754	A	8443	1	528	

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8387	38755	A	8444	2	811	GIHTRLNSELLKEEESNKRLEAE IEYQSRLTAAISKHSESVKTER NVKLAL*EQDVSQVKMSSDI SEVEDKNEFLTEQLSKKQIKFN TLKDKFRKKRDTLRKKSLALET VHNNLSQTQQQIKEMKEMYEN AEAKENNSTGKWSCVEERICQL QHENPCIEQQLDDVHQECLPS RKEKFKSEPPAFLSGNQVKSSS CSLQTLFPPDDLILYLENPKDST KKLLELINKFRVTGYKIKLQKS VAFLNDKNEQSKEENQECNPIY
8388	38756	B	8445	1	1581	
8389	38757	A	8446	617	2972	EQNKPYQWLQRKNSKRERSE KKQPQVKEGNNNTKSEKQLSE NICDSTSSAAAGRLTQQRKIGK TYPQQFPKKLKEEHDRCTLKQE NEEKTNVNMLYKKNREELERK EKQYKKEVEAKQLEPTLQSLE MKSKTARNTPNRDFHNHEEMK GLMDENCILKADAILRQEICTM KNDNLEKENKYLKDIKIVKETN AALEKYIKLNEEMITETAFRYQ QELNDLKAENTRLNAELLKEK ESKKRLEADIESYQSRLAAAISK HSESVKTERNLKLALERTDVS VQVEMSSAISKVAENEFLTEQ LSETQIKFNTLKD KFRKTRDSL RKKSLALETVQNDLTQTQQQT QEMKEMYQNAEAKVNNSTGK WNCVEERICHLQREN PWLVQQ LDDVHQKEDHKEK*LISQGRF IESGKKDLVLEEKSKLTNECD HLKESLFQYEREKTEGVPKKEN EELRKL FELISSLYNVNRIRKK NDELEEEATGYKKLLEMTINM LNVFGNEDFDCHGDLKTDQLK MDILIKKLKQFDDLTAKEAL SSKCVNLAKDNQVLQQEFLSM KKVQQQCEKLEEDKKMLKEEI LNLKTHMENN RVLSKLQEYK LELDEKAMQAVEKLEEIHLQEQ AQYEKQLEQ/FKQGYNTASLNK KELTLKDVECKFYKMKTA YEE VTTELEEYKEAFAAALKANSS

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8390	38758	A	8447	1	2794	AVYLSRGCVCVCIRCISLLKEPH EEGVMCSFRSVATQKNDIRPDF QLGKMDSKIKELEPQLTILYQN PKTLKFQKKSVKFALSPSMAL RK*PFKMFSI*SIFIALQFLHGY KPILFEPNQTWPGHVAVWQDT CSIVAI/SANITQKVHPVI/W/SSIP PYGVALSSLTTGTAAPLCTQL GV*IPLDCAQATFISHDKMVISL KGYLFLSSCLGNSLLLKYTEKL QEPPASAICEAADKEEPSQKK RVDT/S
8391	38759	A	8448	184	427	WAIAIQRHVVDQEWQIADPC NM**VENAETLPPGPFLNISLES SARRRATSRDDNRRFRPHRSRR SRRSRSDNALHLASE
8392	38760	A	8449	1	903	MAQKFMAPNRARTLRDICTDR EAYPVQESMGSGTRGQRKEDM GGAALSTGEGGARDVKAPLPE ATLCSQMGPTGRPSGLCDLAG STLAGRWMHQSFDFDGGMEAS KLPGQEGVRIQPMSETRRRAT SRDDNRRFRPHRSRRSRSD FSLHLASEREAISRLKDRPPLRA REDYDQFMRQRSFQESMGHGS RRDLYGQCPRTVSDLALQNAF GDRWGPYFAEYDWCSTCSSSS ESDNEGYFLGEPQPAPRLRYV TSD\DCCTNTAPTASPNLPH*VA EDSCTAGKDQRAKTCIISLY
8393	38761	B	8450	1	322	

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8394	38762	A	8451	1	2460	MEEKSKRRGVLWSLLILALKFG DEPPLGSPNSCKYKLTTLKELG WREVFSSLQFCLCTSVASQMLS QYFEYTQPHPGDICHPETCALQ KVFLTSSGQSSSTSSSSQQFVLQ INAIQTILEKTPTHISTPTPTPTLA NPTAVGLEEDREQDVGTSRSG GAWDTRIKRELEKMSEKCGGQ INGGDIASFASRAGHGVCWHPP CFVCTVCNELLVDLIYFYQDGK IYCGRHHAELCKPRCAACDEIIF ADECTEAEGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGKPRDAIMS SLHSWHLRKGVRRRRRRKEDK SPEVLP*KSISGTLSH*R*RPH* SLFLGSRVSLPSGECRGPYPYS HSLRLYSQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDQGHW HATETCFCCAHCCKSLLGRPFL PKQGQIFCSRACSGEDPNGSD SSDSAFQNAKESRRSAKIGK NKGKTEEPMLNQHSQQLQVSSN RLSADVDPLSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAQPEMWGKHFSNPK RSSSLAMTGHAGSFIKECREDY YPGRRLRSQESYSDMSSQSFSSET
8395	38763	A	8452	2	942	NKNPKNHYPESYVSLKNDFTK LTSRRHRGVEQALVQLCHVFV CEHGHVIVTLSSGFIVYRTRAN YSSAQGVGIAAAALDAVLIRA HQTQGGCHHELSALLAFEKGSE KKEEEGGQVSRSSSLKVQAQE LSATEDKGHISPFWEAVYHYA SGECRGPYPYSLSRLYSQQA LPTGRGPSSSQFPFCQFYCCYK KSLLCDCLSKSPALEKAMRGID QGQMTYDQGHWHATETCFCC AHCKKSLLGRPFLPKQGQIFCS RACSGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP C*TSTASCK

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8396	38764	A	8453	1	937	VHQYYSCLP EEKVPYVNSPGEK LRIKQLLHQLPPHDNEVRYCNS LDEEEKRELKLFSSQRKRENLG RGNVRPFPVTMTGAICEQCGG QINGGDI AVFASRAGHGVCWH PPCFVCTVCNELLVDLIYFYQD GKIYCGRHHA ECLKPRCAACD EIIFADECTEA EGRHWHMKHFC CFECETVLGGQRYIMKEGRPYC CHCFESLYAEYCDTCAQHIGID QGQMTYDGGHWHATETCFCC AHCKKSL LGRPFLPKQGQIFCS RACSAGEDPNGSDSSDSAFQNA RAKESRRSAKIGKNKGKTEEP\
8397	38765	B	8454	214	551	
8398	38766	A	8455	1	1140	
8399	38767	A	8456	1	2525	MLNIQSVPGIGQGHYSRYLHSN PMHSGDFISNIHMRKPKFREIIF ADECTEA EGRHWHMKHFCCFE CETVLGGQRYIMKEGRPYCCH CFESLYAEYCDTCAQHIGEAIF GSQ/HWSFC/RCGHLCFGEWG* PQLLWMLC*LELTGPRDAIMS SLHSWHLRKGVRRRRRRKEDK SPEVLP*KSISGTL SH*R*RPH* SLFLGSRVSLPSGECRGP GPYS HSLRLYSQQALPTGRGPSSSQFP FCQFYCCYKKSLLCDCLSKSPA LEKAMRGIDQGQMTYDGGHW HATETCFCCA HCKKSL LGRPFL PKQGQIFCSRACSAGEDPNGSD SSDSAFQNA RAKESRRSAKIGK NKGKTEEPMLNQHSQ LQVSSN RLSADV DPLSLQMDMLSLSSQT PSLNRDPIWRSREEPYHYGNKM EQNQTSPLQLLSQCNIRTSYSP GGQGAGAQPEMWGKHFSNPK RSSSLAMTG HAGSFIKECREDY YPGR LRSQESYSDMSSQS FSET RGSIQVPKYEEEEEEEGGLSTQ QCRTRHPISSLKYTEDMTPT EQ TPRGSME SLALS NATENQDDCS FVNRLKGSNNRPGRRQELMVT WNFIQERN GSGMDQCDDGGG KILDPVYILTVELTGFAKGWKM FSVKDQSVNVLGFA GCL SADG GAKRQEHL SRFSMPDLSKDSG MNVSEKLSNMGT LNSSMQFRS

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8400	38768	A	8457	7	302	PLPSSPEQPAGRKGTGLPCALT EIYFRVTIYFYVEIEK\LLIIVAK QEGLSGN\HKP\VERKYMITYLS AQD\HELIQVVQNGHLQMCGK SETGNEASPVS
8401	38769	A	8458	1	241	MTYLSAQDHELIQVVQNGHLQ MCGKSETGNEASP/G*GRGVNP WP/RHARSRMALTRSSASCCR CSGASSICTGTSLSLSTGG
8402	38770	A	8459	31	454	QRSAWRSQIWSASRSV*SVFVR RASSRCLRNTGSGPGHPDR*DC RT/ARRCGWTRRRMASPSAAC GRSRCCSACVI/LNIVELKEVVV GNHLESIFLVMGYCEQDLASLL ENMPTPFSEAQVKCIVLQVLRG LQYLHRNFIIHR
8403	38771	A	8460	1	914	SYHHLRHHHHHLPHHCF/HHN NHYHHYHHYHHHHHHCHHYH YHHLHHHHHHHHHDHCYYH NNNNNCHHHHHHYHHHHH*Y HHYHPHHHHHHHYHHHHHYHH HHHHHHHRHHYHHHHHQHH HYHHLHHHHYHHYHNNY\HR HHRYSNNHHYHHHHPHHY HHHHC*HHHYLYHHHHHHNH HHHYHHHHHYHYHYH/HHH HHHHHHHYHHYCHDHNYHYH HHHHYH/AHFHHHYHHYHYH HHHHRHHHHLHHHYCHRP YHYLSCCETSHTLFPQNAISSFD CKYLDGQDDEDFVVYKLCTLY
8404	38772	A	8461	102	420	DTGPGEGAAGGCGG\GVGEGV AAPAAPGHS*VG/GNQPYLSPV CSRGSPGTGRAAARGLSGCWP WWSPRSGSAPSQCSSASWSAW SAGAPRFAPSAPGHPEGRRCPA
8405	38773	B	8462	121	215	

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8406	38774	A	8463	44	1584	AVLDRGPRVGSSSPSPGGMSTC LSSPLFATAAELGG\GLCSAGRD GPRRKVYLSVDEKKLRCCQPKS GRSVAERAAGH\SAEGWRPVH VGPGLLGLAL*GP*AWGFQGR KGGI*KGAYTAKCMMGSDKAQ ASGIATGGGHSGAEAVG/PQQ/ QGTVLSFEGGGGLSFRMPGSL \GPSVPCKCGHPGPRCPPHAV E\GTDTVATVAAT/GPPLAPSHG TSWQSGSLQ*DTGPGEGAA\AA AVVGVGEGAELPAAPGHS*VG VISHICHPFVAGGSPGTGRAAA RGLSGCWPWWSPRSGSAPSQC SSASWSAWSAGAPRSAPSAPGH PEGRRCPA*GWN PQGSKSSLKS SELWTPIPYVPYAVP*HTCGYA AGPAPVQTPCRGGWNGAQVGL DP\GGHGDGTPHGS/APRLPGRV GGAP*AAVAAISTDPPATASLG PAPGGPACCPSL*AACPASSASP APARSSWPPAPASCGSAAPWW HQTGHGSLWWPEHSCRLSHRS PSPGAPCWPFPRASPDRTA
8407	38775	A	8464	1	541	MKSLEEKIGCLLKFLGDLDDQT CKEDLHILFSNHGEIKWIDFIRG AKEGIILFKEKAKETLGKAKDA NNGNLQLRSKEVTWEVLEGEL EKEALKKITEDQQESLNKWK KGCRFKGKRKGSKAAQPGSGK GKVQFQDKKTKFASDDAHDEN GSTGPIKRGREETDKE*PASKQ PKTENA

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8408	38776	A	8465	1	1326	PAALGGGVVAVAVCEPVARLL WAGTLKIAVMAENGDNKMA ALEAKICHQIEYYFGDFNLPRD KFLKEQIKLDEGWVPLEIMIKF NRLNRLTTDFNVIVEALSLSKA ELMEISEDKTKIRRSPLPEV TDEYKNDVKNRSVYIKGFPTD ATLDDIKEWLEDKGQVLNIQM RRTLHKAFKGSIFVVFDSIESAK KFVETPGQKYKETDLLILFKDD YFAKKNEERKQNKVEAKLRK QEQAQKQLEEDAEMKSLEEKI GCLLKFSGLDDQTCREDLHIL FSNHGEIKW\DFVRGAKEGIILF KEKAKEALGKAKDANNGLQ LARNKEV\TWEVLEGEVEKEAL KKIIEDQQESLNKWKSKGRRF KGKGKGNKSCSPGSGKGKVQ FQGGKTKFASDDEHDEHDENG ATGPVKRAREETDKEEPASKQ QKTENGAGDQ
8409	38777	A	8466	2	331	CSTSLMIREMQVKTMMRYHLTP ARMAIIKKSRRPGVCGPQFTASY CSSWNRGLSRAMAQSLTPRPLS TLQ/PLLA VDRGS/PVLGASHRL PAQC/CMTDSSSSTLGSAAAGSW QQ
8410	38778	A	8467	1	209	MNSHFLKEDIQMANKHMEKCS \PLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
8411	38779	A	8468	2	370	CSTSLIIREMQIETMMRYHLIPA RMAIIKK\SRCWQCGGEQETLL HSWKPPQ/LWRSSSGTARERQF LHPLLLKARIEITPPESLAVLKIP MEGTWMELEAVILSKLTQKQK TKH*MLSLTSGS
8412	38780	A	8469	2	194	CSTSLMIREMQIKTTVRYRLTS ARMAIIKKS\NSRCWHGCGEH RTLLHCCNLWKERNVSYVSA
8413	38781	A	8470	341	496	

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8414	38782	A	8471	46	711	SLIHLELIFCIGLDVRLGKDFMT NNLKGNAIKTKINFWDLIKLN FCKAKRNSQ\ANR*QTEWEKT FIICTSDKGLTSRIYNKQISKK KTNNPIIKWAKDMNRQFSKEDI QMANKHMKKCSTSLMIREMQI KTTVRYHLTSARMAIIKKSKINS RCWHGCGEHGTLHCWK/SKS LYEKDTCTRMFIAAQLAIAKTW NQPKGPSINAWIKDWCQSKTN HNK
8415	38783	B	8472	36	1199	
8416	38784	A	8473	3	184	FFFFLRRSL/DSVAQAGVQWR DLSSLQAPPPGFTPFSCSLSS WDYRRLPPRPANFLYF**RRGF TMLARMVIS*PRDPLASASQS AGIQKNSFFLETRVSAFVAQA GVQWCDLGSPQPPPGFK*FSC LSLLSSWDYRRLPPRPANFLYF
8417	38785	A	8474	3	295	AAAFFVFFETEFRSVAQAGVQ WRDLDSLQAPPPGFTPFSCSLP CSWDYRRVPPCPANFCIFSRDG VSPC*PGWSRSPDLVIHPSRPPK VLGLQAMS
8418	38786	A	8475	1501	1879	IRNTHAKIIECLLPFLTEL*CNF FFFFLRRSL/DSVAQAGVQWR LGSLQAPPPGFTPFSCSLSSW GYRRLPPCPA/NFFVFLVERGFT VLARMVLMS*PRDPPASASQSA GITGVSHHARPTLK
8419	38787	A	8476	1550	2469	FFPFFFFLRRSSPLPPRLQCSGMI LAYCNLRLLGSSNSVASASGVA GITGTCHHTQ*IFVFLVETGFHH VGQAGLEFLTSGDLPTSASQSA/ RDYRRDDHTRPEKCF/C*KTHIL WHSPSWSS/EERGSQFFSQDS*K SSRYPKLLGMWVIINIYGTR T*K*EKFKTREYIGTHSIHRGNH GVNTYHVASEKLH/*YTYRMK KAKNFFFFLRRRELASIVAQAG VQWRDLG\SLQSPPPGFTPFSCP ASLRSDYR/RVLPPCLANFFL YFFS/MRRGFTVFSR\MVVIS*PR DQ\PASASQSAGITGVSHRARL KIIFLFFFSETESRSVAQAGVQ WHDLGSRHRPPPGFTPFSCLSFP SSWDYRGPPRPANFCVFSRD GVSPC*PGWSRSPDLVIRPASAS QKCWDYRREPPRPA
8420	38788	A	8477	1	2268	

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8421	38789	A	8478	1	2312	MAGPPSGPGRPEVCGAGRTRV AKARFRRRRAFASLGWSSGRE VVTFGDVAVHFSREEWQCLDP GQRALYREVMLENHSSVAGIG EDAPWGPFPCHSQHPPSQASIR GPCVYTVADVPTGIAVIPPAA VCFSRLKDCDTRTEDKEFLHKE DIHEDLESQAEISENYAGDVSQ VPELGLDLCDDVSRDWGVPEG RRLPQSLSQEGDFTPAAMGLLR GPLGEKDLDCNGFDSRFSLSPN LMACQEIPTEERPHPYDMGGQS FQHSVDLTGHEGVPTAESPLIC NECGKTFQGNPTLFSVKQSHT GEA\SFMCDDCGKTFSQNSVLK NRHRSHMSEKAYQCSECGKAF RGHSDFSRHQSHSSERPVMCN ECGKAFSQNSSLKKHKQ\HMS EKPYECNECGKAFA\SSNLIQH QRIHSGEK\PYVCSECGKAFRRS SNLIKHRTHTGKPFECG*CG KAFSQSAHLRKHQRVHTGEKP YECNDCGKPFSRVSNLIKHHRV HTGEKP*KSSACGKAFSQSSLI QHRRIHTG\EKPHVCNVCCKAF SY*LQCSESTRFIHTGRGRPYRC SVCCKAFSHSSALIQHQGVHTG DKPYACHECGKTFGRSSNLILH QRVHTGEKPYECTECGKTFSQS STLIQHQRJHNGAEAP/YKCNQC GKAFFNQSSKFSIHPQKVHIGEK\ PSPCVECCKGFSQSSHFFQHRY
8422	38790	C	8479	194	458	
8423	38791	C	8480	214	378	
8424	38792	A	8481	107	345	GPLTCRYWEIHSQEPGPPRSLE MVLFSQSN*SPVWSKEKNL*P *RDMR*/YAKPPGRCK*K*IQQ MTQMRGRNIQEKASP

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8425	38793	A	8482	1	1454	MHEEEGESGDSRVYMSTQCTH VTLNKFLGFIVSESVSGLNIQES MKEVLRGQSLKHNPIREAGLET LQSGRQLERRGRLSGMARPLSL AAAGAPDLLFTALCSLLIEAQP LRPFDLQTTLTAAECHYTGKKF SLNEGKPVLRKNSQTNTWEPG TIITWGRGYACVSPGDQSPVWV PTERLKL RVNSDKESHREKTSK SETAFIPAQDLAYNRFYLIHLLT LSVSPVSPQTDLPAT*NYSYWA YVPFPPLIRPLFWMDAPAEIYT NDSVYMPGATDDHCPTRPREE GTA FNVTMGYKYPPCLCLGHAH VDGCIHLQAQIWAAYLPERLAT REQGHLISSLSPLRQMKG GVI GDTPNFQYKPVGKPCPKNFEGP SKILIWEDCVNSHV VVLKND A YGLVIGWAPKGYFK\NNC SSGG RECLEATYFISHWEDKDHHTL HRRVSSFFPL*WEDKGITPPRPH MIFPILSLEHSELWKLA IAMSGL
8426	38794	A	8483	49	1393	AEPAPTHLPPPPSTAPQPERNSC CISQQSFSVP*S/SPDSDRPRGRH /SPPPP/SPCPPPPCLPPPKSTTAM PTRCQCPPPPIPTVAAFPLPPSHF LRTLPA PRPPTQPPPLSH/TTHPP EQRTLGP KFR LFSTPSKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPQCRDKELLITK RKYRKKK DFAAGLEDVTEFQG REENPRHTFIYSLPLGLQKHQV LTVDIGFGGTAIMTG IARVPLA GAAGGPGVGRAAGRGVPAGVP IPQAPAGLAGPVRGVGGPSQQV MTPQGRGTVAAA AVAATASIM APPPGMRPPMGPPIGLPPARGTP IGMPPPGMRPPPPGIRDCGGS LT PLGDVCLKGSLARVLCRAIVQI YSICVLLTTSEQQLSIRIHPQNA V

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8427	38795	A	8484	49	752	AEPAPTHLPPPSTAPQPERNSC CISQQSFSVP*/S/SPDSDRPRGRH /SPPPP/SPCPPPCLPPPKSTTAM PTRCQCPPPPIPTVAAFLPPSHF LRTLPAAPRPPTQPPPLSH/TTHPP EQRTLGPKFRLFSTPSPKNLEYL MNKSGRSPGCLLREATGTADL ARSIASLTAPQTDASGISGGRST LRQTRCSSGRLRTHPRLSMRAS LPLRPRRRACLPCQCRDKELLITK RKYRKKKD
8428	38796	B	8485	511	1349	
8429	38797	A	8486	3	431	ADAVGGPGGPGMAGCDGLPG GFGSDIRPRLWLWLPRLWSS* RGTNIIASVPKKLLLM/DCYA LARDRTATLGTFDAISKASN WIPDLWKETVFTKFPYQEFTDH L/VKTHTRVSKQKTQVPAVATT AARQTMEGQAPVEYI
8430	38798	A	8487	1	470	
8431	38799	A	8488	3	314	
8432	38800	A	8489	1	458	
8433	38801	A	8490	1	855	PTRPLVLRVGATARALPRPSRS CSPSAVVPSAPSSCPPQPRIRTPK PEPEPEQVIKNYTEELKVPPDED CIISMEKLSTASGYSDVTDKAI GSLAVGHLTKCSHAFHLLCLA MYCNGNKDGSQCPSCKTIYG EKTGTQPQGMVLRQMSLP GHEDCGTILIVYSIPP/IGIQP/HEH PNPGKAVSLPEGFPAQCYLPEQ RPGPAKSLRAP*RAWK/RRLI FTVGHVPAPTGETDTVVWNEI HHKTEMDRNTGHGYDPNYL QNVLAELAAQGVTEDCLEQQ
8434	38802	A	8491	1	3797	MEYYAAIENDEFMSFVGTWMK LEIIILSKLSQEQKTKHRMFSLID FGFSNLFTPGQLLKTWCGSPPY AAPELFEGKEYDGPVDIWSLG VVLYVLVCGALPFDGSTLQNL RARVLSGKFRIPFFMSTGLVPEL DKRLKAGCLSAIECEHLIRHML VLDPNKRLSMEQICKHKWMKL GDADPNFDRLIAECQQLKEERQ VDPLNEDVLLAMEDMGLDKEQ TLQSLRSDAYDHYSIYSLLCD RHKRHKTLRLGALP

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8435	38803	A	8492	1	2563	MGDFNTPLSTVDRSMRQKVDK DTQELNSALHQADLDIYRTLH PKSTEYTFFSAPHHTYSKIDNIIG SKALLSKCKGTEIITNSLSDHSA IKLELRIKKLTQNHSTTEKLNLL LLNDYWVHNEMKAEIKMFSET NENKDTTYQNLWDTFKA VCRG KFIALNAHKRKQERSKIDTLTS QLKELEKLNQEEVESLNRPTG AEIVAIINSLPTKKSPGPDGFTA KFYWRKYKEELVPFLLKLFQSIE KEGILPNSGYEASIIIPKPRDGT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIG MQGWFNICKSINVQHINRTKD KNHMIISIDAEKAFDKIQPFML KTLNKL AQNLLKLISN/SQQLSR IQNQCTKITSILIHQ*QTNREPNH E*TPIHNCFKENKIPRNPTYKGC EGPLQGELQTTAQGNKRGYKQ MEEHSMMLMGRKNQYLENGHT AQGNL*/I/QMPSPSSY**LSSQN WKKLL*SSYGTKKIGPHSQVNP KPKEQSWRHHTT*LQTLQGYS NQNSMVLAPKQR*RPMEQNRA LRNNAAYLQLSDL*QT*QKQA MGNGFPI**MVLGKLASHMEK AETGSLPYTLYKN*FKMD*RLT H*S*NHKNPRRKPRQYHVSVHRH GQGLHV*NTKSNGNKSQN*RM GSN*TKELLHSERNYHQSEQAT HKMGENFRNLLI*QRANIQNLLQ

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8436	38804	A	8493	1	1839	MPRALAFQAPVNIQAEQAGTAMNISVPQVQLINPENQIVEASSNLWELSAETTTFAISLLPFLIISNSMPDGTNLNLDSEGEEPSPEALVRYLSMRRHTVGVA DPRTEVME DLQKLLPGFPGVNPQAPFLQVAPNVNFMHNLLPMQNLQPTGQLEYKMSGPLPSRLPLISWSVLPTLFLAEQSLLPPTLQLLNGMGPLGRRASDGGANIQLHAQQLLK/RPRGPSPLVTMPA VPAVTPVD EESSDGEPDQEA VQRYLANRSKRHTLAMTNPTAEIPDLQRQLGQQPFRSRVWPPHLVPDQHRSTYKDSNTLHLP TERFSPVRRFSDGAASIQAFAHLEKMGNNSSIKQLQQECEQLQKMYGGQIDERTLEKTQQQHMLYQQEQHHQILQQQIQQPAQSQQVTIQVQEPVDMLSNMPGTAAGSSGRGISISPSAGQMOMQHRTNLMATLSYGHRPLSKQLSADSAEAHRLKWETREKGLLEDDSSVSNTGGDVTNEGKSTESADFGFSNLFTPGQLLKTWCGSPPYAAPELFEGKEYDGPKVDIWSLGVVLYVLVCGALPFDGSTLQNLRARVLSGKFRIPFFMSTGYFHLLGSHCNVVLNAKDKVGF
8437	38805	B	8494	1	3879	
8438	38806	A	8495	1	4065	MGKKQSRKTGNSKKQSASPPP KKRSSSPATEQSWTENDFDELREEGFRRSNYSELREEIQTGKEVENYEKSLEECITRITNTENCLKELMEPKTKARELRKECRSLRSRCYQLVERVSAMEDEVNEMKDT HRLKVKGWRKIYQGNGKQKKAGVAILVSDKTD FKPTKIKRDK EGHYMMVKGSIQQEELTILNIYAPNTGAPRFIKQVLSDLQRDLDSHTLIMGDFNTPLSTLDRSTRQKVNNNTQELNSALHQA
8439	38807	A	8496	1490	1813	TGNLQNGRKFLQPTHLTGK*YPEMMNSNKFTRKKQTTPSKSGRRT*TDTSQKKTFMQPKNT*KN AHHHWPSEKCKSKPL*DTISHQLEWQSLKSQETT GAGEDVDK

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8440	38808	A	8497	1614	3085	AGE G N K A D K Q L Q Q S L R I Q N Q C T K I T S I L I H Q Q Q T N R E P N H E S T P I H N C F K E N K I P R N P T Y K G C E G P L Q G E L Q T T A Q G N K R G Y K Q M E E H S M L M G R K N Q Y H E N G H T A Q G N L Q I / Q M P S P S S Y Q * L S S Q N W K K L L S S Y G T K K I G L H H Q V N P K P K E Q S W R H H A T * L Q T I L Q G Y S N Q N S M V L V P K Q R Y R S M E Q N R A L R N N A A Y L Q L S D L * Q T * E K Q A M G K G F P I * * M V L G K L A S H M * K A E T G S L P Y T L Y K N Q F K M D * R F K R * T * N H K N P R R K P R H Y H S G H R H G Q G L / L C P K H Q K Q W / H T K A K I D K W D L I K L / I E L L H S K R N Y H Q S E Q A T Y K M G E N F R N L L I * Q R A N I Q N L Q * T Q T N L Q E K N K Q P H Q K V G E G H E Q T L L K R R H L C S Q E T H E K M L I I T G H Q R N A N Q N H N E I P S H T S * N G N / Q L K S Q E T T G A G E D V E K * E H F Y T V G G T V N * F N H C G S Q C G D S S G I * N * K Y H L T Q P S H Y W V Y T Q R T I N H A A I K T H A H V C L L R H Y S Q

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8441	38809	A	8498	2	2013	LNQEEVESLNRPIITGAEIVAINS LPTKKSPGPDGFTAKFYWRYK EELVPFLLKLFQSIEKEGILPNSC YEASIIIPKPGRDITTKKENFRPI SLMNIDAKILNKILANRIQQHIK KLIHHDQVGFIPGMQGWFNICK SINVIQHINRTKDKNHMIISIDAE KAFDKIQQPFMLKTLNKL AQN LLKLISN/SQQSLRIQNQCTKITS ILIHQ*QTNREPHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELQ TTAQGNKRGYKQMEHSMLM GRKNQYLENGHTAQGNL*/I/QM PSPSSY**LSSQNWKLL*SSYG TKK\GPHSQVNPKEQSWRHH TT*LQTILOGYSNQNSMVLAPK QR*RPMEQNRALRNNAAYLQL SDL*QT*QKQAMGNGFPI**MV LGKLASHMEKAETGSLPYTLY KN*FKMD*RLTH*S*NHKNPRR KPRQYHSVHRHGQGLHV*NTK SNGNKSQN*RMGSN*TKELLHS ERNYHQSEQATHKMGENFRNL LI*QRANIQLQ*TQTNLQEK KQPHQKMGKGHEQTLLKRRHL CSQKTHEKMLIITGHQRNANQN HNEIPSHTSQNGD/QLKSQETT AGEDVEK*EHFYTVGGTVN*FN HCGSQCGDSSGI*N*KYHLTQP SHYWVYTQRTINHAATKTHAH VCLLRHYSQ
8442	38810	B	8499	1	2860	

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8443	38811	A	8500	3	2202	EGRNKDVI*NQREQRHNIPEL GHIQSSV*REI*NTKCPQEKAGK IQN*HPNITIKRTRKARANTFKS *QKARNN*NQSRIEGRDRTKNP SKN**IQTIREYYKHLHANNLE NLEEMDKFLDTYTLPRLNQEEV ESLNRPTGSEIVAIINSLPTKKS PGPDGFTAKFYQRYKEELRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNGIPIKLPTF FTELEKTTLKFIWNQKRARVAK SILSQKNKAGGIMLPDFKLYYK ATVTKTAWYWYQNRDIDQWN RTEPSEIMPHIYNYLIFDKPEKN KQWGKDSL FNKWCWENWLAI CRKLKMDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGNTIQDI GMGKDFMSKTPKAMATKAKID KWDLIKLSFCTAKETTIGVNR QPTKWEKIFATYSSDKGLIFRIY NELKQIYKKKTNNPIKKWAKD MNRQFSKEDIYAAKRHMKKCS TSLAIREMQIKTTMRYHLTPVR TAIHKSGNNRCWRGCGEIGTL LHCCWDCKLVQPLWKS VWR LRDLELEIPFDPAIPLLGIYPKDY KSCCYKDTCTRMFTAALLTIK TWNQPKCPTMIDWIKMWHIY TMESYAAIKNDEFMSFVGTWM KLEIHLSKLSQGQKTKQRIFSLI DGN

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8444	38812	A	8501	437	2163	KQKCNISHLWNAVKVERIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNI PCSWVEESIP*K WPYCPR*FTDSMPSPSSYQ*LSS QNWKKLL*SSYGTKKEPASPSQ S*AKRTKLEASHYLTSNYSTRL Q*PPGKRGPPPEVQGHNADENN HTEDRQGNRRHEHSIDQLAVT DVHSTTAEYTF LSTRGGFSKID HMLGCKTNLNK YKEIEIIQSIFS NHNEIKQEINSRRKTRKSTNLW ELSSALLMNGSEKKTQVNL DNI WKLMKAKMQHITLMCESSRK NKIPRNPTYKGREGPLQGELOT TAQGNKRGYKQMEHPMLMG GRINTVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RARIAKSILSQKNKAGGLTLPD FKLFYKATVTKTAWYWYQNR DIDQWNRTEPSEIMPHIYNYVIF DKPEKNKQWGKDSL FNKWCW ENWLAICRKLKLD PFLTPYTKI NSRWIKDLTVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTGKET TIRVNRQPTKWKKIFATYSSDK GLISRJYNELKQIYKKKTNNPIK KWVKDMNRHFSKEDIYAACK HMKKCSPSLAVREM QIKTTMR YHLPVRMAIIKSGNNRCWR GCGEIGTLLHCWWDCKLVQPL WKS VWQFLRDLEIPFDP AIPL
8445	38813	A	8502	1	2001	MPHIQVMLMQEMDSHSLGKLC PYGFAEYSPTSSCFHGFVLSVC GSSRDKATQRVDALVRQVIVN GGIVLDQFAVHDRVALADLIDL LVDLSAMMLCGVPTTGDPFVA FALGHPDDFDHLILPKHLVDRI LLEPLLGPVQLLSHSASVHLD LHQFCSDFSYGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNI CSWVGRINIMKMAMRPR*FID SMPSPSSYQ*LSSQNWKKLL*SS YGTKKEPVSPSQALA
8446	38814	B	8503	152	3166	

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8447	38815	A	8504	15	2745	HPTVNIRQINETESQQGYPGIEL SSAPSGPNRHLQNSP/PPNQQNI HFFQHHTTPIPKLTT*LSTLDRS TRQKVNKDTQELNSALHQADL IDIYRTLHPKSTEYTFFSAPHHT YSKIDHIVGSKALLSKCKRTEII TNYLSDHSAIKLELRIKNLTQSH STTWKLNNLLLNDYWVHNEM KSEIKMFFETNENKDDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQLELEKQEQT HSKASRRQEITK
8448	38816	A	8505	2853	3925	AVGPSVRTPRPYLCVRKDVHD VVPILRPSATSLFMPRAAGQGG QKAGGTEKSSGP*KDDV*RLQP PNGFRIIH*VQ*TCRKGCPLSK RNTFQFQN*R*NLLYPALPNIPH SSVEEGVGS!*ARSEDLEGAQLP *LLARLFTCRSNTYRGLKFTEA* GGE*QSICYSTRRANYPKY/HM HPIQEDPDS*SKS*VTYKET*TP TQ**WETLT/PPLSTLDRSTRQK VNKDTQELNSALHQADLID\TT ELSTPNQKNLHFFQHHTTPIPKL TTYLEVKLAPQQM*KNRNYNKL SLRPQCNQTRTQD*ETHSKLLN YMETEQPAPE*LLGT*RNESRN KDV L*NQREQRHNIPELGHIS SV
8449	38817	A	8506	2	376	IPYLP*STYMETGMIYVVQGIY GYHHYMQDRIDDNGWGCA YR SLQTICSWFKHQGYTERSIPTHR EIQQALVDAGDKPATFVGSRQ WIGSIEVQLVLNQLIGITSKILFV SNTRKNKKVGNIVS
8450	38818	A	8507	1	1008	
8451	38819	A	8508	218	343	
8452	38820	B	8509	306	1434	
8453	38821	A	8510	3	659	

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8454	38822	A	8511	3	1990	EPHRIASPRFRQAFDSDGTDRTL *FLSDIEEEELTRGDPEQRHVPL RRKSEWKWAADRAAIDSRWN WLQAHVSDLEYRIRQQTDIYK QIRANKGLIGLGEVPPPEHTTD LFLPLSSEVKTDHGTDKLIESVS QPLENHGAPIIGHISESLSTKSC GALRPVNGVINTLQPVLAHDHPI GDCSDAEEQLHKKQRLNLVSSS SDGTCVAARTRPVLSCKKRRLV RPNSIVPLSKKVHRNSTIRPGCD VNPSALCGSGSINTMPPEIHYE APLLERLSQLDSCVHPVLAFPD DVPTSLHFQSMKLSQWQNKPF DKIKPPKKLSLKHRA PMPGSLP DSARKDRHKLVSFLTTAKLSH HQTRPDRTHRQHLDDVGAVPM VERVTAPKAERLLNPPPPVHDP NHSKMRLRDHSSERSEVLKHH TDMSSSSYLAATHPPHSP LVR QLSTSSDSPAPASSSSQVTASTS QQPVRRRRGESSFDINNIVIPMS VAATTRVEKLQYKEILTPSWRE VDLQSLKGSPEENEPEASPDV SSSHSLSEYSHGQSPRSPISPELH SAPLTPVARDTPRHLASEDTRC STPELGLDEQSVQPWERRTFPL AHSPQAECEDQLDAQERAARC TRRTSGSKTGRETEAAPTSPPIV PLKSRHLVAAATAQRPTHR
8455	38823	A	8512	119	739	ADDRDHLHIQTWCAKAPVFLQ PGSSWLSTKGKKM/PETPASDE PPLRQPAVRFEFLQHAPPDSLQP LGSPGHS*GPSSDTGQPAAGRW PRRQP*AAVQDLGPQTRGSASP ESQTVLPAAPSAPGSARPHGSM SASAPSPTASPQMSKPPCAAAC LRGSGAGGGTVGPCLEPGGSAP PRARLPRCAAGSARPGAAAGPP PGAGTTRAVP
8456	38824	A	8513	1	343	MRMCLRLPTLMTKCTNWHVT GHLCRPT/MREPTPEP/WTGDDT TA*METRWPAEQPALAERRLFR AAPRGAFAGIAAPSPAAPPQPG SLGILPEPTPAQAWAARNQLRG RIKERGS

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8457	38825	A	8514	3	405	KKFNPAGERVCTILVDPSIPSTAYPSYGVPHS*GPSLSLPHL/SSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS/SSNCIPPAWEGETPSKKNKINGNPWSKIRDKTSGGEVEVWGLVAVAPVM
8458	38826	A	8515	100	1397	PPASTYLMLERLKAPWSAALQRKYFDLGIWTAPISPMALTMLNGLLIKDSSPPMLLHQVNKTAQLDTFNYQSCFMQSVFDHFPEILFIHRTYNPRGKV/CIYLPGGWTSGAAGGSSCPSSLCHPC/ARRDT/CRPVPDVPSIQEV*SSMGESLYHPGGSSFPSTAYPS/SWSSPQLRSFSQPSTFVSSSRPSSISCPLNGPWKGCS*PPCRAQCAQPQAT*ESCIHS*ATASLQSPCSFTHTGCS TTASGWLTAGEAELRAATTSRASRSPPTSSASSLVPPHLRNKVWLLCSVTCSTLQTRQTSTRACVPRTIMLPQTPSPKAPNWSSW*NPTSSTPSMPSAQGGQPNCAWASLLWSRNPHTSLALAQR*TYRSWKIPIRCSPSPLPAAATLTRPSTCPAATS*PCSVPAARCSPTCCRLSGRQAVLPV
8459	38827	A	8516	1	326	CLTQMYFLIS/FANVDTFLLAIMALD/RLLAICSALRYCSIITPGYSHFYCDAYLLMKIACSIHVNHVFLGAVVFL/APCALILVSYIRIAAA/ILRIPSPTRRRKACSIC
8460	38828	A	8517	2	669	TISYPQCLTQMYFLISFANVDTFLLPIMALDHYVAICSALQ*CSIITP/ELCQGLPVLA*AGSSLISPVHTVIMSRLAFCSSAQISHFYRDAYLLMKIACSHT*\NQHVFLGAVVLFLAPCALILVSYIRIAAAILRIPSPTRRRKACSICSSHLSLVTLFYGTVLGICI*PPDSFSAQDAIATIMYTVVTSMNLNPFYISLMNKEVQEA VRRLFSRGSHSSWCW

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8461	38829	A	8518	1	3594	MVAAAAATEARLRRRTAATAA LAGRSGGPHCVNGGRCNPGTG QCVCPAGWVGEQCQHCGRFR LTGSSGFVTDGPGNYKYKIKC TWLIEGQPNRIMRLRFNHFATE CSWDHLYVYDGD SIYAPLVAA FSGLIVPERDGNETVPEVVATS GYALLHFFSDAAYNLTFGNITY SFD MCPNNCSGRGECKISNSSD TVECECSENWKGEACDIPHCTD NCGFPHRGICNSSDVRGCSCFS DWQGP GCSVPVPANQSFV
8462	38830	A	8519	1	471	ALCAPQPGKCFCTTKGSSG/DE CQLCEV/ENRYQANPLRGTCYN TLLIDYQFTFSLSQEDDRYYTAI NFVATPDEQNRDLDMFINASK NFNLNITWAASF SAGTQAGEE MPVVS KTNIEKYKDSFSNEKFD FRNHPNITFFVYVSNFTWPIKIQ VQTEQ
8463	38831	A	8520	1	4289	
8464	38832	A	8521	1	3488	MDYGV LTRLTGSSGFVTDGPG NYKYKTKCTWLIEGQPNRIMR LRFNHFATECSWDHLYVYDGD SIYAPLVAAFSGLIVPERDGNET VPEVVATSGYALLHFFSDAAY NLTFGNITYSFD MCPNNCSGRG ECKISNSSDTVECECSENWKGE ACDIPHCTDNCGFPHRGICNSSD VRGCSCFSDWQGP GCSVPVPA NQSFVWTR EYSNFKA/LPRASH KAVVNGNIMWVVG GYMFNHS DYNMVLAYDLASREWLP
8465	38833	A	8522	4794	5740	YICNWKMKDSSFPSLVQSPRS PGSCGLSGWGWGCPRVASAGS ACSCNSAVPARRTQEACRRELI GGRSTIFTDVQGGW GAPGTVN EGNSACPPTLRVTVAAWLSLLF VLCRVCAASVPSLVRLRWGPQ CSGPWGA WAPPWAARVSQPG AGPGRGA EAQLLPAASIQWPC HQAPHLLLVLALVTSQGPSRCR GFCLAGPCQGGPGGLLILFCHW NVPLQFSSLFFF* DGVSLLLPR LECSGISGHCNLR LPGSSDRPA LGS*VAGDYRCLPAC SANFFVF LVEKGFHHVGRAGL KLL/MVIH LPRPPRV LRLQA

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8466	38834	A	8523	594	2868	CWTSRNRRIPIGSCHPMELPRPF RGKAKVQNHQLVHVNKALIN RGSITFWLDDGAIQAWHCPVK TYYQYTPVSSKAMY/DAFWNG/ KFRDC/AFHSWLNEDPFVCEYQ GQSSDLPQPPV NAGGGSGGGS GGGSEGGGSEGGGSEGGGSEG GGSEGGGSGGGSGSGDFDYEK MANANKGAMTENADENALQS DAKGKLDVATDYGAAIDGFIG DVSGLANGNGATGDFAGSNSQ MAQVGDGDN SPLMNNFRQYLP SLPQSVECRPYVLSAGSEIGAA CASRSGYDNKGVRDIGYTDCK RSEDLDPLRHQILGGKKAIQFTL QGFTLPEGAPAGNSGSLAVHK TAQSSYRHHALLILTPMSGTRF PIPGPVVNIRVFPFAPSSECRIC YSWSWVPGSPVHCQSDGSPVPI SYAPLASQYSSSFLFRNRQPYA PYDYLSVMTSPRTLREQIRIRYA PSAPRLPPPEVYCSNSTIVYVRN NPSGPTPGFAGGTLLEGRSGGP FRFYAKRAKGDVLKPFSLNPL QTLIRFMVDIACGMEYLSSRNFI HRDLAARKCMYEFWRTRGWE TAAAYYGGGTTFRKESQKLQ QSAKKRDAELANGALGIIELNN DYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLF TDSRGSK MTIDGINSNDIYMLGYVSNSLT GPYKPLNKTGLVLQMGDPND
8467	38835	A	8524	302	409	
8468	38836	A	8525	199	359	ARRQQVSVKSYRWEEEDQHCG ELQGSE*VSDGLFKPP*S*HGW VEEERQKEQN
8469	38837	A	8526	1853	2032	VKQSTALLPHAVAC*PKVISSG ARGLKSILVLIRIVVMVSMPL QLALSGWGRFRLPG
8470	38838	A	8527	118	445	AAGGEPGDAPWVPGVWEPPE VCRGPPPSSTFPHVLSTFGASG PENS RDCSWLSPQH*AA*VASG NNGPQAAQGSLSGIPDAATLSG I*RASILHVSVEIISSPGFR

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8471	38839	A	8528	1	770	MRVLGIETSCDETGIAIYDDEK GLLANQLYSQVKLHADYGGVV PELASRDHVRKTVPLIQAALKE SGLTAKDIDAVA YTAGPGLVG ALLVGATVGRSLAFALGRFGDP CTPYWRASVSARCWKIPAPNFR CALLGSAAYAVNHGTGLSKKP TTLGSDHSKTPAQLAKRAGEA RRNGWQGALFPWESARSGEEE TP/VICRH*HSHRAAAKSGLGA GGTSSGGRYRLGGYSILADHGG *KFHCA*RHGATSGDGKVL D
8472	38840	A	8529	3	834	VGRVEIADQYQDLAILWNCLG SDHASSRQRRPFRGKAKVQNH QLVHLQQSSHQPWLPHFLAG* WGDSGLGGGS\EGGGSEGGGSE GGGSEGGGSGGGSGSGDFDYE KMANANKGAMTENADENALQ SDAKGKLDSVATDYGAAIDGFI GDVSGLANGNGATGDFAGSNS QMAQVGDGDN SPLMNNFRQY LPSLPQSVECRPYVFGAVRHDV RRIRVTGVTRVTPPEEVDTSVH SRGAHRIRSGFAPKRSVRVTTD TCIKRNSTCGVKSLSLWDGGGF
8473	38841	B	8530	1	811	
8474	38842	A	8531	1	1044	
8475	38843	A	8532	3	1472	GVVGERAGMARPGRPREGGGS G/GYSRPVPPAGGPGP*RGRTRI/ SGLANGAGPVVFQFLTELTRLF QKCRTSGSVYITLKKCKQREGS RAMLPGFYTPVSSKAMYDAY WNGKFRDCAFHSGFNEDPFVC EYQQQSSDLPQPPVNAGGGSG GGSGGGSEGGGSEGGGSEGGG SEG DGSEGDGSGGGSGSGDFD YEKMANANKGAMTENADENA LQSDAKGKLDSVATDYGAAID GFIGDVSGLANGNGATGDFAG SNSQMAQVGDGDN SPLMNNFR QYLPSPQSVECRPYVFGAGKP YEFSIDCDKIKILRGVFAFLLYV ATFMLPVIANIAIPQKRPFMQQT RCEVQCRE DIEVQKLKSYDKLL ASINKKPGVNGWQKRRTVNA GEAHDQQALDYALYHLRIMTP AHDERSIAAKGLTGEGYKGH VFWDTEVFLLPFHLFSDPTVAR SLLRYRWHNLPGRARRKRDGN GWAGGAPISVGKARAAAKK
8476	38844	A	8533	609	855	

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8477	38845	A	8534	369	1278	GHTACEWYSQGRHPGPELSPFL *GPG*NAGHVISMPAARPMPC LGTGGLDVLLHHLRPDLPPAAL PGSAWPGEGALPLPGQVSGRG RSAACLQPGAWPGRGAAPVRR RPRPAAAGSVREAELLESPLA AHRDC*LARKLNSGGYIPQAEY GKHAGLPLPGARALSCGCRAR APVPAALPHPLLDHQDPGPAGR IYGTGAGTQTLDGSAPTSRL GSTQMPEARPLAGWGVAGV WSRG*SR*TRGSAS/SPRPRCA LLALPGAAVSGDLRARNPRGR PPKAPSGRGGPLPPHRSTPRR
8478	38846	A	8535	3	2494	YQRQSSSPEDPAETASPTYALIA ACQSEIQLQTRQQPCDMAPGPL DCDPVKGSSRKRMLNAPPV VALQPKWEASVPPGSFRFPECF SEADKGVESMSPTMHKELPAL AACGLVADFDPVGEEETADFG PLVLDSDDSDVDRDIEEAIQEY L/KGGGSRCKRELAHSS/APTAL CSPKLVPGSGG/GGPGSQVGSS KDQGSASPVMSRADSFQESIR AEIEQFLNEKRQHETQKCDGSV EKKPDTHENSASLSKSHQEP TKVVHRQGLMGVQKEFAFCRP PRLAKTNVQPRSLRSKVTTTT QEKEGSTKPATP/TRPSEAVQN KSGIKRSASTARRGKRVTSAVQ APEASDSSSDGIEEAIQLYQVQ KTRKEADGDPQRVQLQEERA PAPPAHSTSSATKSALPETHRKT PSKKKPVPTKTTDPGPGDLAD HSPKIPKETKAPPPTSPASRSKF VEWSSCQADTSAELIAVLDFK TILP/APMEGSDGSLASPLFYSP NVPSRSDGDSSSVDSDDSIEQEI WTFLLALKVQSRLLARGAAGQ APERVEKQAPAGAEELPKSKRD SCEGSRKKPPSVFGSRAERTKP RPSCSSVDSDDSIELEIRKFLVE KAKESGVPGQAQPCLVKPTLA GEEGLRSPAKQEGLTSAIVAGIS AALGPEHTWVPGATTPTPSVA PVLVPAVPTHWKKLAPACGGP

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8479	38847	A	8536	I	2463	MHKELPALAACGLVADFDVPG EEETADFGPLVLDSDDSVDR DIEEAIQEYL/KGGGSRCRELA HSS/APTALCSPKLVPGSGG/GG PGSQVGSSKDQGSASPVMSRA DSFEQSIRAEIEQFLNEKRQHET QKCDGSVEKKPDTHENSAKSLS KSHQEPATKVVHRQGLMDVQ KEFAFCRPPRLAKTNVQPRSLR SKVTITTTTQEKEGSTKPATP/TR PSEAVQNKSGIKRNASARRGK RVTSIAQAPEASDSSDDGIEEA IQLYQVQKTHKEADGDPPQRV QLQEERAPAPPAHSTSSATKSA LPETHRKTPSKKKPVPTKTTDP GPGDLADHSPKIPKETKAPP TSPASRSKFVEWSSCQADTSAE LIAVLDIFKILP/APMEGSDGS LSASPLFYSPNVPSRSDGDSSSV DSDDSIEQEIWTFLLKLVQSRSL LARGESCPQAAQGPLSPPGLSS QTGSPKAPLSKTLDP/LGCKRK HRGGISKAQPARPRDGRAPLG WDLSIQGTASEAPGGEGAARVP GDTRTSQGGKTDEARHLDDK KSEDDKSSSLDSDKDLDTAID LLRESQGPAPSPGSLSDNSSSV SDDSIELEIRKFLVEKAKESGVP GQAQPCWKPTLAGEEGLRSP AKQEGLTSAIVAGISAALGPEH TWVPGATTPTPSVAPVLVPAV PTHWKKLAPACGGPGQSLIDID
8480	38848	B	8537	I	3345	

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8481	38849	A	8538	1	1339	MTKKSPGPDSFTGHWCVISIPS GYERSRLKVTLPEEGRGALPFL VSVAISSGSCSDNNAAVPTVLE GATTVISAAAVLRDPHDGAREII LEAMTISAVAIAAEISWTSQCG LCLHPGMFMPYRHGDGIRDLLP LVLSATICAEEFKGDSKKPSKK RVKRKPYSTTKVTSGSTFNENI RRYAVHTNQCRPHGSRVKKK RYPQEDDFHHTVFSNLERLDKL QPTLEASEESLVHKDRGDGERP VNARVVQVAPLRLESSKYSGIT CQENNLDAKKA/TP/CRTPYMT SLTRTPHTTSLTRILSTA/SANEA ADKGIANEDAAQGIANEDAAH GMPARMPPRASPTRSPPRASPT RTPPRASPTRTPPRASPRTPPT GSPRRTPPRASPTRTPSTASPTR TPPMASPTRTLPTALLTRMPCT ASLMRTPYTSLMRVPYMTSL MTPYKAR
8482	38850	A	8539	1	3090	MHKELPALAACGLVADFDPVG EEETADFGPLVLDSDSDSVDR DIEEAIQEYLKVGSSKDQGSASP VSMSRADSFESIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVRHQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8483	38851	A	8540	1	2919	MHKELPALAACGLVADFDPVG EEETADFGPLVLDSDSDSVDR DIEEAIQEYLKVGSSKDQGSASP VSMSRADSFESIRAEIEQFLNE KRQHETQKCDGSVEKKPDTHE NSAKSLSKSHQEPATKVVRHQ GLMGVQKEFAFCRPPRLAKTN VQPRSLRSKVTTTTTQEKEGST KPATP/TRPSEAVQNKSGIKRSA STARRGKRVTSAVQAPEASDSS SDDGIEEAIQLYQVQKTHKEAD GDPPQRVQLQEER
8484	38852	B	8541	1	1122	
8485	38853	A	8542	1	1074	
8486	38854	B	8543	1	1017	

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8487	38855	A	8544	1	1436	MNLPRERLRSTPQRSRLRSDG EDGKIDVLGEEDEDEVEDEEE EASQQFLEQSLQPGQLQVARWG GVALPREHIEGGGGSPDPSEFG TEFRAPPRSAASSEDARQPAKP PYSYIALITMAILQSPHKRLTLS GICAFISGRFPYYRRKFPAWQN SIRHNLSLNDCFVKIPREPGRPG KGNYSWLDPASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLLGAAP PQPVPGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPA/ALPVLQPSLATVK PVGQFCSNSSGIRRRRTGNGCAP TKGAVLGGHLSAASAAAASVSG GGRGLWADIARALWAERDLTS FFSIAHAQFPGRVRRALLEPGSR QPHSPTGVQKRPLLNPAGLGQ SKSSETTENRG/CPMSCQLLAGL RSNSPLSVVRKRLRADLPSFIAN KRPGRAATAAEPRRDFL
8488	38856	A	8545	1	1287	MNLPRERPRSTPQRSRLRSDG EDGKIDVLGEEDEDEVEDEEE EASQKFLEQSLQPGQLQVARWG GVALPREHIEGGGGSPDPSEFG TKFRAPPRSAASSEDARQPAKP PYSYIALITMAILQNPHKRLTLS GICAFISGRFPYYRRKFPAWQN SIRHNLSLNE*FVKIPREPGHPG KGNYSWLDPASQDMFDNGSFL RRRKRFRHQLTPGAHLPHFPF LPAHAALHNPRPGPLLGAAP PQPVPGAYPNTAPGRRPYALLH PHPPRYLLLSAPAYAGAPKKAE GADLATPGTLPVLQPSLGPQPW E/RGQGSVATGR\GCISFSIESI MQGVRGAGTGAAQSLSPYAW SYCPLLQRPSSLARTILQQQQQH QEEDCANGCAPTKGAVLGGHL SAASALLRYQPVAKGLWADIA AAPLGEGTSPVFL

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8489	38857	A	8546	202	823	AQNPTAFGVKHTSSGGEETFPN IRGIKKSPQQLSSSSIRLSKNILST TGKTVHQTRDDQPRDFFKKR NRVNESHQKSSNMNAGPSWNK VQHSKNSSGKRQSKSQVPHASS QPRSSLTAVTQPTEEKLIESISPE ARRKRNPGLGFRCCGASRNKLF DFQSMKIIKENADEDSASDLSD/ SGKNSHSSFSPTSRSSQSS*RN RVNESHQKSSNMNAGPSWNKV QHSKNSSGKRQSKSQVPHASSQ PRSSLTAVTQPTEEKLIESISPEA RRKRNPGLGFRCCGASRNKLF DFQSMKIIKENADEDSASDLSDSE RIPIPPSPLTPDLNLRAEEIGSSL L
8490	38858	C	8547	219	1013	
8491	38859	C	8548	252	452	
8492	38860	A	8549	25	443	
8493	38861	A	8550	20	1371	RLRGPALGAGGGSVTLRL/PRS EQAARKEAGLNTMIPLEKPGSG GSVPRRHLRLGPGSSGS*AGRA RTPPPQARGLLTEIRAVVRTEP FQERLQPVPRAGSWAGGKFSSG EKMYKEKILGKNLLQSS*EKRR KISQDCRMEIHEIAVLELAQDN PWVINLHEVYETASEMILVLEY AAGGEIFDQCVADREEAFKEK DVQRLMRQILEGVHFLHTRDV VHLDLKPQNILLTSESPLGDIKI VDFGLSRILKNSEELREIMGTPE YVAPEILSYDPISMATDMWSIG VLTYYMLTGISPFLGNDKQETF LNISQMNLSSYSEEFVLSA VDFIRTLVKKPEDRATAEECL KHPWLTQSSIQEPSFRMEKALE EANALQEGHSVPEINSDTDKSE TEESIVTEELIVVTSYTLGQCRQ SEKEKMEQKAISKRFKEEPLL
8494	38862	A	8551	1	1275	
8495	38863	A	8552	1	4173	

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8496	38864	A	8553	2	5115	PDQFHNMDLRGGPHDGV TIPRS TSDTDLVTSDSRSTLMVSSSY SIGH SQDLVIHWDIKEEVDAGD WIGMYLIDEVLSENFLDYKNRG VNGSHRGQIIWKIDASSYFVEPE TKICFKYYHGVSGALRATTPSV TVKNSAAPIFKSIGADETVQQG GSRRLISFSLSDFQAMGLKKGM FFNPDPLYLKISIQPGKHSIFPALP HHGQERRSKIIGNTVNPWQAE QFSFVSLPTDVLIEIVKDKFAKS RPIIKRFLG
8497	38865	A	8554	202	260	ARVHQPVSLKQRFPLELGRHH QDSEAHAPPPGPAASRGGI*V AWPAPRAGVVSLLGCRSSWTA AMELSAEYLREKLQRDLEAEH VLPSPGGVGQVRGETAASETQ AGERVPSRRAPAHPC
8498	38866	A	8555	72	578	GSKGSVAGARAWVVSLLGCRS RWTAA MELQRRIPPREAAAGP WRRSMWRWRTRPSTVAPVASE SWWCRPSSRGNRCFQRHSLDPS MTIHCDMVITYGLDQLENCQT CGTNYIISVLNLLTLIVEQINTKL PSSFVEKLFIPSSKLLFLRYHKE KEVVAVAHAVYQAML
8499	38867	A	8556	299	939	LPSPGGVGQVRGETAASETQVL YRAMRRVTAANQAFFSEAEVT AAKERGIVLPLRCADPS\QTIHCD MGVITYGLDQLENCQTCGTNYII SVL\NLLTLIVEQINTKL PSSFVE KLVIPSSKLLFWRYHKEKEVVA VA\HAVLSRPMLQLGRNIPCFG RTAY*V*YWGRKWTCGPLNNL PGTVCNFPEACSEIKHEAFKNH VFNVDNAKFVVKFDLN

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8500	38868	A	8557	1407	2783	SSAASHSSSPGAASRARATAGS RRRSSPIQSCHPPASACGQSGQS ETHRLAMRNRTPPS*GFSSK/H MRRSSSLASS*RG*KSVAVIL*IS ASGILPTDVHLSPTPGSSETCHR PHPGH*EPSDCLQKLPASALG*S *QEQLSHNSPRSA*AQYA/ESSG NSFFSSKVGD*RFTTTVA\PGGP GRRTLPGKPSPEHPHRLPELPPP RSPAQVCDQTLVAPHDHNTAG/ TPGDQVCLTLVSTSRSLSVLSK GCFFLHHSTLSVQAGVRHLSLV S*AAEPTSYL*VGPKLMAPS*KS LKIRTRKPRADDSPGTSRYSSA HTRTRKPRADDSPGTSRYSHAH TRMWKPRADDSRH\SRYSTGCR SPGQMTLHAPADTALHTPG/PR KPRADDSPGTSRYSTAHTRTRK PRADDSPGTSRYSTAHTRTQKP RADDSTGTSRYSTPLASRRHRI AASASWALVVLICLTL
8501	38869	A	8558	92	1817	PLRNTGLCRGKGHPGLESSGSR RRRDGRASERRQTQREGRKTL CSSHSPWWKANASAPAVWSQ AHRTQKPRADDSPGTSRYSTAH TRTRKPRADDSPGT\PDALQTP GRRSPGQMTPGTSRYSTGRGSP GQMTPGTSRYSTERRSPGQMTL QTPADTAQDAEAQGR*LQAPA DTALHTPGRRSPGQMTLQAPA DTALHTPGHRSRGKMTLQAPA DTALHTPGRGSPGQMTLQAPA DTALHTPERSEPGQMT\PRRPA DTALHTPGRGSPAQMTLQAPA DTALHTPGRRSPGKMTPGTSRY SHAHTRTRKPRADDSPGTSRYST AHTRTQKPRADDSPGTSRYSTA HTRMRKPRADDSRH\SRYSTGC RSPGQMTLQAPADTALHTPG/P RKPRADDSPGTSRYSTAHTRTR KPRADDSPGTSRYSTAHTRIRK PRADDSPGTSRYSTAHTRTQKP RADD\SRHQIQHRMQKPRADD SPGTRRYSHAHTRTRKPRADDS PGTSRYSTAHTRTRKPRADDS PGTSRYSTAHTRTQKPRADDS PGTSRYSTRAGCCPPGLASSAWAGL RLKTRKGWTW

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8502	38870	A	8559	13	299	EKGQDILQNLFWQLRHGPIMSS \PSASNTGWGSSS*SIVPSSTVSS WSTAMKLSSSLSEELAMTFHST ENIVVLGWVQWLTPVVPALWD SEAGRSP
8503	38871	A	8560	337	1879	VHVGAARRGFGVYPVLSLTVS GTQNCGPCLQTVVSTYQRV*PI SVIMVS*RLSRKETFSGRAVPILI LEPQSLASRTVHAIMM/HNQS MYVFGGCTQSSCNAAFNDLWR LDLNSKEWIRPLASGSYSPKA GATLVVYKDLLVLFGGWTRPS PYPLHQPERFFDEIHTYSPSKN WWNCIVTTHGPPPMAGHSSCVI DDKMIVFGGSLGSRQMSNDVW VLDLEQWAWSKPNISGPSHPR GGQSQLFKDAWLLHMHSGPW AWQPLKVENEHGAPELWCHP ACRVGQCVVVSQAPSGRAPLS PSLNSRPSISATPPALVPETREY RSQSPVRSMDEAPCVNGRWGT LRPRAQRQTPSGSREGSLSPAR GDGSPILNGGSLSPGTAAVGGG SLDSPVQAISPSTPSAPEGYDLK IGLSLAPRRGSLPDQKDLRLGSI DLNWDLKPASSSNPMDGMDN RTVGGSMRHPPEQTNGVHTPP HVASALAGAVSPGALRRSLEAI KAMSSKGPSASGRH
8504	38872	A	8561	25	313	

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8505	38873	A	8562	1	1409	MIERVLEGKWALSRAEGLHRH QCLEFLIHLVFQLMKVVNEMCP NITRIYNIGKSHQGLKLYAVEIS DHPGEHEVGEPEFHYYIAGAHGN EVLGRELLLLLVQFVCQEYLAR NARIVHLVEETRIHVLP SLNPDG YEKAYEGGSELGGWSLGRWTH DGIDINNNFPDLNTLLWEAEDR QNVPRKVPNHYYIAIPEWFLSEN ATVAAETRAVIAWMEKIPFVLG GNLQGGELVVAYPYDLVRSPW KTQEHTPTPDDHVFRWLAYS ASTHRLMTDARRRVCHTEDFQ KEEGTVNGASWHTVAGSLNDF SYLHTNCFELSIYVGCDKYPHE SQLPEEWENNRESLIVFMEQVH RGIKGLVRDSHGKGIPNAIISVE GINHDIRTA\TDGDYWRLLNP\G EYVVTAKAGRFHCIHPRTCMV GYDMGAHK/CLNFTLSKTNLA RIRRDHWSFGKAAPSALPSPG G*KLRG\RKRRQRG
8506	38874	A	8563	3	749	KTDHILGHKTCLKTFRKIEIISGI LSDHSGIKLQINNKGNGFNHTS TWKLNNMLLNDQ*VNEEIKKEI *NHPETNDNGNATYQNL*DTG KEVLRGKL/IPISTYIK*VEKLQI NNLTMHLKELEKPEQTKRKITR RKEIIRAEINEIEAKKTIPKFN ETNSWFLENIHKTNEHLARLRK KDPNKIREEKEDIITDTVEIQRII RSYYAKK WENLEETDKFLDTY NLPRLNNEEVQNL SRPITTTVPI
8507	38875	A	8564	1	842	

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8508	38876	A	8565	1	1203	VPELFGNCRQLLEEVEVAT*PR RFRDSPGGSVQGLWTSLRRAAE MLFPVHLVRPRM*ILERFVPHA LDYLLGSRLFKEPLPLKQVNPS RSLDHLQRIAREHFINYL TQCH CYHVAEFELPKTMNNSAENHT ANSSMAYPSLVAMASQRQAKI QRYKQKKELEHRLSAMKSAVE SGQADDERVRGYLLHLQRW VDISLEEIESIDQEIKILRERDSSR EASTSNSSSRQERPPVKPFHSHF GTWLHSQSTFGAGYSKGWPTY RTVS\DWYE\QHRKLWSTYPDQ G\AKAAPEEFRKAAQQQEDQ\ KKRRKRMRTKQLPQSPGVGM TGSDTHP*GPMGTDRTWADLP TTPQD\SGVH\TPLPRKTMQSSP PPVSWLQLCTTEGKDAKSCFAF SKVSSDLSVYLYP
8509	38877	A	8566	1	995	GTKELLLT*LGGSPLLLT*TKPL GVDPLLKGGVTQGFNEKAVFA ALRPSYGGPAGKPAFAGAMSL AGAQQSLWSVEGGNKLVCSSL LKLTKANVIHATVTSVTLHSTE GKALYQVAYENEVGNSSDFYD IVVIATPLHLDNSSSNLTFAGFH PPIDDVQGSFQPTVVS LVHGYL NSSYFRFPRP*AFPL\SNILTTDF PSFFCTLDNICPVNISASFRRKQP QDAAVWRVQSTKPLFRTQLKT LFRSYYSVQTAGVGRANPLYG FRPHGFPRFALHDQLFYLNAL WAASSVEVMAVAANKNVAFAW LYNRWYQDLKDIDQKDLMHK
8510	38878	A	8567	1	372	

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8511	38879	A	8568	1	1699	MHAHSIKTQALADMEKLKVVV RDKNWVARIIPQMTSKGHVGV TTTSSAKLKSQKDSVAVKRV RSGLMIGFRFMVIPPSFGPQVL MEIPKDADKLLCPSCAAVVLG QKKHETQTLSELKLPVDNVV PKEDPGTWERTVKEGILEEV MCWLQSRVEGDWAKEERKIFH EGELAEAKAGRGGLASCTCCPL TPGKMAGPWTFTLLCGLLAAT LIQATLSPTAVLILGPKIVIKEKL TQELKDHNATSILQQLPLLIAM REKPAGGIPVLGSLVNTVLKHII WLKVITANILQLQVKPSANDQE LLVKIPLDMVAGFNTPLVKTIV EFHMTTEAQATIRMDTSASGPT RLVLSDCATSHGSLRIQLLHKL SFLVNALAKQVMNLLVPSLPNL VKNQLCPVIEASFNGMYADLL QLVKVPISLSIDRLE/F*PSVSCH QG*HHSALPGGQVVGLTGKGD QVVHNSAASLTMPITLDNIPFSL IVSQDVVKAAVAAVLSPEEFM VLLDSVLPESAHLKSSIGLINE KAADKLGSTQIVKILTQDTPEFF YRPRPCQGGPTDRAGSVSLQ
8512	38880	A	8569	1	1060	MGLPAQGVGGNTLAKLLASDD IAKGGKRNKSEASVVRNAADA PKVLQDLSARLMGDFELRNCN SPCTLLIGIVVLINAAAETLVFLS DHMEDQGSSQLNVAVLSYFQQ QDPEGQKEETAGIDLMDMASDI LQPKGDDVARISWYLRDIITRY QETFNVIERCPKPVIAAVHGGCI GGGGAAPMPRPLASSLSVM GQTVSQEAAPPPGSQGWFWWS FSIPGLYLLGVDLVACDIRYC AQDAFFQVKEVDVGLAADVGT LQRLPKVIGNQSLVNELAFAR KMMADEISSKSPVALQ/S/TKVN LLYSRDHSVAESLNYVASWNM SMLQTQDLVKSQATTENKEL KTVTFSKL
8513	38881	B	8570	331	1200	
8514	38882	A	8571	3	379	TSLTFHSPEVPSS*PPSCTR*AGA ARGPRPPGAAGRPR*SC*GPPGT RRWQS*GGTSPLGPVPGGRSGA ASCGLPDCEL*PLKRSAGGRNQ CPV*SSPRSWRSRSEPCAARG WPPSACRHGNRR

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8515	38883	A	8572	384	1718	SLQLPRGLLPESCAADPGA*PPS CTR*AGAARGPRPPGAAGRPR* SC*GPPGT/PALAKPPSPPVVS AAPTQARPMIKPOGAAWSTQK LPIPTSASPTQKSPIPTSASSTQK LPIPTAAWSTQKLPIPTAAWST QKLPIPTAAWSTQKLPIPTAAW STQKLPIPTAASSTQKLPMPTAA SSTQKSPIPTAASSTQKLPIPTAA WST*KLPITRAAWSTQKLPIPTA ASSTQKYTIATAASYHAKATDA WST*KLPIPRAAWST*KLPIPTA AWSTQKLPIPTAASSTQKSPIPT AASSTQKLPMPTAAWSTQKLPI PTAAWSTQKLPIPTAASSTQKL PMPTAASSTQKLPMPTAAWSTI TTMGATTHGPPSTDTQNVVFLH PRCPEQASSQRSGAGAD*GLSN PKVSSAEAPSCAKDEPEVEKGR GPAPWTSQRWRAVGRPRG
8516	38884	A	8573	302	543	KLHLGWGKTPG*HWGLY*NLP RLNGPNSLMPSLRRVRRNKAR QVTSIAGCALQMEQWMHGMT RHPTRISTPITAAREVRI
8517	38885	C	8574	253	396	
8518	38886	A	8575	1107	1751	LQDLSQYFGGSQLIKT*IG*TTSI ITNSNL*TTLEM/SVKGIAEQLG TNCQMAWENRIALDMILAERG GVCIMIKTECCAFIPNNTAPNGS ITKALQGLTALSNELASSGVN DPFTGWLEKWFGKWKGITASIL TSLTAVMGVLILVGCCVIPCICG LVQRHRGPPLVVIETKPLGLER LAGLPVGHALKLGSGIQATPQN GENADRREAFPAAS
8519	38887	A	8576	1	1365	
8520	38888	A	8577	3	263	QLILKDKFITQSAADIKEKLQKS TLGPERNLKTLNLAT/CCFL** RSGGAGGTGQTR*EKGHFFSH GPRASGLWRLWNAESLGKSNA
8521	38889	A	8578	365	470	
8522	38890	A	8579	1	1278	
8523	38891	A	8580	23	257	
8524	38892	A	8581	1	1812	

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8525	38893	A	8582	265	699	LLGSTVLFHDPQLLIELYHSSHG PKVPFLGIREAKNSRSENTRLAT ILGAGLLPSWKWFTTILGAL*A RTPR*HFGNH/VTDIQS/RIEAVK LQMEPKMQSKTKIYRRPLDRPA SPRSDVNDIKGTPREEISAACKPL LRPNSAGSS
8526	38894	A	8583	2	181	
8527	38895	A	8584	1	69	
8528	38896	A	8585	1	674	MDLNYTLEQMDLTDIYRTFHPT TTEYTFYSTGHGTFSKTDDVIG HKMSLDKFKKIEMISNTVSDHS GIKLEINSERNLENHANTWKLN NLLLNECWVKNKMKMEIKKLF ELNDNNDTTYHNLWDRAKVVI RGKCIALNTYIKKSERAQTDNL RIKKNHMIISIDAEKAFDKIQH PFMIKTLISKISIRGTYNLIKDI/S *QTHSQHNAEWGKIESIHSENW NRG
8529	38897	B	8586	1	415	
8530	38898	A	8587	1	516	
8531	38899	B	8588	110	382	
8532	38900	A	8589	140	253	QNKACQHPPKITRVHQQWIQT KKKSSYLLKKEFRRLVIKLIREA PEEGKAQCCEVQKLIQKVQGEI IDEIDTINKKQPKLQETMDTLTK MQNAQESLSNRIEQEEHHSKSL ENIFGSIMEENFPSLARDLDSQI QEAQRTPGKFITKRSSPRHIVIR LSKVKTKERILRVVRQKRK\IVL KS*PGNMTKQGLSTSPKNHTSS PTMDPNQEEILDPEKRIQEVSY
8533	38901	A	8590	89	194	
8534	38902	A	8591	2	633	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8535	38903	A	8592	298	2648	GSSKILLFNQNEDDKINFELFFF FVASALVLVQKAFSRSWSSMA LADKRLLENLQIYKVLQCVRNK DKKQIEKLTKLGYPELINYTEPI NGLSALHLASVSNDIDMVSFLL DLGAHPDVQDRMGCTPTMRA AELGHELMEILAKAKADMTIV DNEGKVLEGTGGLTSSPLAHIA VALHIPRRDTQGVLFYCILPTKR HYRCALIALEHGADVNNSTYE GKPIFLRACEDAHVDKDVCLTF LEKGANPNAINSLKLLFAYNG DVGLISINGNTPLHYAAMGGFA DCCKYIAQRGCDLKWKNLDHK TPRAVAKEGGFKAASKEIRR/C RENR**TSQARSQKSQIPLWAL RLHDWSVEREAFLEAFVLD RGDGSISKNDFVMVLEEVSRI QAQNSWLPFAHLHEKTRGGGV NIN*ILLKEPDILNKSFVLGSYGP KKKEKGMGKKGKKGKFKVLPLP ICVIPEYAFPRRQDGGPPYIMIE TYKNVTDSSRFNRDHPPEHPIQ DDSVWYIDDSEKVFSNINIITKA GDLASLKKAFESGIPVDMKDN YYKTPLMTACASGNIDVVKFLL EKGYASPSGQQDIVELLVESGA LIDAASJNNSTPLNRAIESCRLD TVKYLLDIGAKFQLENRKGHSA MDVAKAYADYRIIDLIKEKLDN LPKPAENQKLKGKTPILKTEG PEIKKEEELLSSIYGVPTTSEK
8536	38904	A	8593	3	838	MGRGWTQAVGPRWSGGSSCTL YSVGADGRGQGHQSRGCRPPG PPSASSAPCLAWGAAGRARE GLRQNAERSSPLTAPAGRP*PC GAGPCRR*SR*R\PLVGCLRPW ASPGTGAACGRCCCP*P/P*P NPWHFTVSKAFSYMPTTA/RL VRGPRLLVGPVPVAPYIPP/PGS PASRRGSRGRSRSPRPRPSV LSCHGVSL*TGPSLPGWLLQIW QRS AQMS/P/PPKGPP*GSREGPP PP/GPALLPAAAPGGQGHRA AGSCGRRAAARRMEWVRNSPP
8537	38905	B	8594	1	2700	

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8538	38906	A	8595	1	1240	FPPYATNEIGKVTGLNRRELGH GALAEKALYPVIPRDFPFTIRVT SEVLESNGMRRIGQPPASSRPV RRVRAPLPPPLLEVRAPLPASRP SGEVLCTVTFTDSLESIGKSDQVI TAINGIKDKNFMLHYEFPPYAT NEIGKVTGLNRRELGHGALAE KALYPVIPRDFPFTIRVTSEVLE SNGMRRIGQPPASSRPVRRVRA PLPPPLLEVRAPLPASRPSGEVL CTVTFTDSLESIGKSDQVITAINGI KDKNFMLHYEFPPYATNEIGKV TGLNRRELGHGALAEKALYPVI PRDFPFTIRVTSEVLESNGSSSM ASACGGSLALMDSGVPISAV AGRTN*DWSPKPDPEKGEIRKII VC*QIFLGIEDYNGDMDFKIAG TNKGITALQADIKLPGIPIKIVM EAIQQASVAKKEILQIMNKTISK PRASRKENGPPVETVQVPLSKR AKFVGPGGYNLKKLQAETGVT ISQVDEETVFCNLHQHPVLMLE GKRLSFTEICKDDQEQAIRNLG AVILPAHNNWKSEILGVMGKII
8539	38907	A	8596	152	305	DNQNGKLIKCS*PCNFVHRAPY AVEITVLRFCNWTQVQAQRE RTFLILIK
8540	38908	C	8597	414	611	
8541	38909	B	8598	1	403	

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8542	38910	A	8599	1	1702	MDSDEGYNYEFDEDEECSEEDS GAEEEEDEDDDEPDDDTLDLG EVELVEPGLGVGGERDGLLCG ETGGGGGSALPGGGGGGGGG GGGGGPGHEQEEDYRYEVLTS EMILQHMVECIREVNEVIQNPA TITRILLSHFNWDKEKLMERYF DGNLEKLFAECHVINPSKKSRT RQM\NTRSSAQDMPQCQICYLNY PNSYFTGLECGHKFCMQCWSE YLTTKIMEEGMQTISCPAHGC DILVDDNTVMRLITDSKVKLKY QHLITNSFVECNRLKWCAPD CHHVVKVQYPDAKPVRCKCGR QFCFNCGENWHPV\QCKWLK KWIKKDDDDSETSNWIAANTK ECPKCHVTIEKDGGCNHMOVCR NQNC\KAFCWVCLGPWEPHG\ SAWDTVPV*NEDDAKAARDAQ ERSRAALQSYLFYCNRYMNH MQSLRF\EHRLYAQ\VTQTTEE MQQHNMSWIEVQFLKKAVDV LCQCRATLMTYTVFAFY\LKK NKPSFHIFENNP\KARFDENATE GLSG\YLGTRKFPKDS\LQDIKQ KVPRPSTRYCESRRKGFVTSMC HEGYEKDLWEYIED
8543	38911	C	8600	118	219	
8544	38912	C	8601	16	408	
8545	38913	B	8602	1	996	
8546	38914	B	8603	1	1302	

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8547	38915	A	8604	983	2127	DNWKSIRGSCWQDPRELLTFM APCIGVVVMQTTR*K*NTLAGH PSAGVCWCVTSAAACTGAWD ATSPLSSTFATAPGLPRCCSQAS PAPRAEPLHGQPGAPPHALKRP PGLPWP*PQEARQYRHNQAYA YSIQGDGAEDDDERIVRFHTRV INHKKRKNSPRIVQSNDLTEAA YSLSRDQKRMLYLFVDQIRKSD GTLQEHDGICEIHVAKYAEIFGL TSAEASKDIRQALKSFAGKEVV FYRPEEDAGDEKGYESFPWFIK RAHSPSRGLYSVHINPYLIPFFIG LQNRFTQFRLSETKEITNPYAM RLYESLCQYRKPDGSGIVSLKID WIIERYQLPQSYQRMDFRRRF LQHIFVLRERPETVLIDLIQRTK DAVRELDNLQYRKMKKLLFQE AHNGPAVEAQEEEEYGNLD RAYDYVKERRTVTKPNPSFMR QLEEQGILLARPKRTAYIYGS VYRRCGYADHKVEIKHPGWAS ISRGVLVCDECCSVHRSLSGRHIS IVKHLRHSAPPTLLQSGFPGP SRRAAPRAARGPTPRTEAAW AAMALTFLVLTLATLCTRLH RNFRRGESIYWGPTADSQDTVA GSPDHGLLAFAYHRLVRFLW VLCPGWAFFLVNSSRGGVFNPI LHPCPRHGQARFAGVGRAEDV TFLYHPCAHPLWLKLQLALLAY ACMANPSLTPDFSLTQDRVDIE
8548	38916	A	8605	1	224	RKQEWLSKQKENIQHFQAE ANLLRRQRQYLELECRRFKRR MLLGRHNLEQDLVREELNKRQ TQKDLEHAMLLRQHESMQELE FRHLNTIQKMRCELIRLQHQTE LTNQLEYNKRRELRKRVHVM EVRQQPKGLKSKELPNKKSSFQ GYLQNSQTRQYKALRNHLLT TPKSEHKAVLKRLEEQTRKLA ILAEQYDHSINEMLSQAVSLLF LGQNKFSAPFLPPP*AVSEQLCA HSLV

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8549	38917	A	8606	1051	1875	SDQLTAHLLNCVEVAELQFLHR FMLSFIPHHLLRLFTAPAQDASL VPLKGDILGVKLSGDDGRGKP AQHLFLSGLSSSQQLPVLPSQ CQSLCVHHPAVVVNLHDHGAC VSCLPDLGP*QSCGSLAARSC GQSPGVWCLPSGSGRSSTLCRC H*GRSWTPGAPS**TPISSPRRSP GPCAASPGARGCPPAASPPAGS PGTEAPAAPAPGPGYSQPPGAL SSRCDSPCPLRRAPGAHGHTP RCPSVVARCRGVRPRGSSCSMS TSLTRSCSKL
8550	38918	A	8607	714	2148	MPAVAKSKFINRSKRRMCPQV LRSASPIQEGEKISANENSLAVR STPAEDDSPGDSQVKSEVQQPV HPKPLSPDSRASSLSESSPPKAM KKFQAPARETCVECQKTVYPM ERLLANQQVFHISCFRCSYCNN K\LSLGTYASLHGRIYCKPHFNQ LFKS\KG\NYDEGFGRPHKDLI GQAKMKTEEILER\QPQLANAR ETPHSPGVEDAPIAKVGVLAAAS MEAKASSQKEKEDKPAETKKL RIA WPPPTELGSSGSALEEGIKM SKPKWPPPEDEISKPEVPEDVDL DLKKLRRSSSLKERSRPFTVAA SFQSTSVKSPKTVSP\LRKGWS MSEQSEESVGGRVAERKQVEN AKASKKNGNVGKTTWQNKES KGETGKR/R*GKVHSLEMENEN \FV\ENGARLPIEDDNQLPPKQQ SSTKNPSLLEFGPSFVDNHL LK EFTT\QNQKSQDVELWEGEVVK ELSVEEQIKRNRYYDEDEDEE
8551	38919	A	8608	1	4479	MCFSPKKLYKHEIHKLDLTCL KPSIESPLRQNRSRSEEEQKQE ENGDSQLILEKJQLPQWSISLNM TDEHGNLVNLVCDIKKPMDEVY KIHNLQTDPPDIDINAMVALDF EYPMTQENYENLWKLIAYYSE VPMKLHRELMLSKHPRVSYQY RQDADEEALYYTGVRQAQILAEP EWIMQPSIDIQLNRPQSTAKKV LLSYYNQYSQTIATKDTRQARG RSWVMIEPSRAVQKDQTVLEG GRCQLSCNVKASESP

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8552	38920	A	8609	1	9009	MDEFAPGKHLATSGDLFGDHN YGRRTYHTLEVKAEEHPAVS DPFQRQSLRALSPLSEDLPPSSG LRSGLTKELELLMIHGNEIPSIPD GALRDLSSLQVFKFSYNKLRVI TGQTLQGLSNLMRLHIDHNKIE FIHPQAFNGLTSLRLLHLEGNLL HQLHPSTFSTFTFLDYFRLSTIR HLYLAENMVRTLPASMLRNMP LLENLYLQGNPWTCDCEMRWF LEWDAKSRGHSCRGCAHSLSH EIQLAKGFCEMLLL
8553	38921	A	8610	1	4971	MKASGILKCKKDKAYEGGQLC AMCFSPKKLYKHEIHKLDLTC LKPSIESPLRQNRSRSEEEQKQ EENGDSQLILEKIQLPQWSISLN MTDEHGNLVNLVCDIKKPM DV YKIHLNQTDPDIDINAMVALD FEYPMQTENYENLWKLIAYYS EVPMKLHRELMLSKHPRVSYQ YRQDADEEALYYTGVRQAILA EPEWIMQPSIDIQLNRPQSTAKK VLLSYYNQYSQTIA TKDTRQAR GRSWVMIEPSRAVQK
8554	38922	A	8611	1	1283	LSFTTCSTFSTNYRSLGPAQAPS YG/SRPVSSVASVYAGTGNSGS RISVSCSTSFSGMESGGLAAG MT/GGLAGMGGIQNEETMQSL ND/*LASYPDRVRHLETKNRKL ESKIWEHLEKKGPQVRDWSHY FKTIRNQRAQSLAITVDNACIVL QINNTHLAADDFRVKYETELA MCQSVESNIHGLCKVNDDTNV TRLQLETEIKALKEELFMKKN HEEEVKGLQAQIASSGLTMEVD PKSQHLAKIMAAIRAQYDELA WKNGEELDKYLSQQIEESTTVV TTQSAKAGAAEMTLTEL RCTV QSLEINLNSMRNLKASLENSVR EVKACYTLQMEQLNGILLHLGS ELAQTQAKGQCQAQ EYEALLN IKVKLEAEIATYCHLLEDGKDF NLGDALDSSNSMQTIPKTTTHQ RVDGKVVSETNDTKVLRH

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8555	38923	A	8612	2	1365	RPQSLSPVLSPDSMSFTTRST FSTNYRSLGVSQAPSYGARPV SAASVYAGAGGSGSRISVSRST SFRGGMGSGGLATGIAGGLAG MGGIQNEKETMQSLNDGVASY LDRVRSLETENRRLESKIREHLE KKGPPQVRDWSHYFKIHEDLRAQ IFANTVDNARIVLQIDNARLAA DDFRVKYETELAMRQS\VENDI HGLRKVIDDTNITRLQLETEIEA LKEELLFMKKNHHEEVKGLQA QIASSG\LTVEVDAPKSQDLAK\ IMADIR\AQY*RAGLGKNREE\N DKYW\SQQIEVSTTVVTTQSAE V\GAA\ETTLTELRRTVQSLEID LDSMRNLKASLENSLREVEA/R RTPLQMEQLQRGSLLHLESELA QT\RAEGQRQA\QEYEALLEHQ GSSLEAEI\ATYRRLLEDGEDFN L\GDALDSSNSMQTIQKTTTTRI VDGKVVS\ETNNDTKVLRH
8556	38924	A	8613	170	399	
8557	38925	A	8614	141	287	LPSRRAGLGTCSPCLSLPPASR APVRPEPLR*APPPAPRRPVPST TQG
8558	38926	A	8615	356	574	
8559	38927	A	8616	552	770	
8560	38928	A	8617	158	368	
8561	38929	A	8618	1136	1410	
8562	38930	B	8619	1	631	
8563	38931	B	8620	321	2234	
8564	38932	A	8621	170	444	
8565	38933	A	8622	325	722	LIELRHLVFFVLLLFRDLQHIMA CNMRDAVRFFVCFLVIFFREGL SRSSGA/DDRFLAGP*LLSRGAG LGTCSPCLSLPTPWAP/AAAP ASLT\TPPPAPRRPVPSTTQGLRS ASARHGTGRQLHLQPRCGIH
8566	38934	C	8623	1	1449	
8567	38935	A	8624	326	626	LPSHGAGLGTCSPCLSLPPPLW AP/AAAEPQRQAPPPAPWCPVPS TTQGLRNASTRRRTGRQLHMI WFPASLKSSPATLPCEHCAPT LTFSCSSNMQT
8568	38936	A	8625	2009	2227	
8569	38937	B	8626	182	1513	
8570	38938	A	8627	497	761	NHTSCLPLPGTTAEELPSLVA GFGTCSPCLSLPTPWAPVRPE PPR*APPPAPQRPVPSTTQGLRN ASTRHRTGRQLHLQPRCGIH

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8571	38939	A	8628	218	855	GAGLGTCSPPCLSLPPTQRA PV RPEPPRRAPPPAPRRPV PSTTQG LRSASTRHRTGRQLHLQ PQCGV H*VKPAGLLSLALETRTN PAA/ DKHLWQSIISLQLKSDLL KEML GSQTGNGNVQDVLRYLV KSET QKAIVSLDCVRKRYRSSL SL QLKLCDCWGQALFSSALT LDP KEVVVRDLEELSNYKTT LEGSG IFDSVARVREESEAEGT
8572	38940	A	8629	350	615	
8573	38941	A	8630	186	566	RLLSPAACRSGTMIFPSI HPSQC RMIGLGWKK*SSVHNATP WAP VPPEPPGRAPPPAPGRPV PLTTQ GLRSASARRRTGRQLHLQ PQCG IHWVKPAGLLSHEGPRLR SSSQ SDQEPTNSGHS GMCL
8574	38942	A	8631	656	874	
8575	38943	A	8632	415	634	LPSRGAGLGNCSPCLSL PPTPW APVQHKPPRRAPPTPRH PVPS TTQGLRNASAWRRSGRH LHLQ PQCGIH
8576	38944	A	8633	2	264	NKQPIWIPSRHLKPYHEP DAKE EIPGGS*GPTSCSHVETD AEEDP NCHEQHLSNTATHLGTDQ EAVI DGRRKPEESRTTSHICRC RS

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8577	38945	A	8634	1	1743	MGQVWALVHSTLETFTDEEE GEYNEVTEQVCLPAKAGSAV DLCCTKAVSLLPGESPQKVPTG AGGPLPAGMTGLLLGRSSLNIK AVQVQTGVTDSYNGEIQVTS TSVPWKAKPGDHIAQLLIVPKK FARFEGTASSGKTKFLPRFRISF LMAAIVKPPPIPLKWLTDKPI WTEQWPLSKEKLEALEDLITQQ LKKGHIAPTFSPWNSPVFIKKK SAEQDCEWFVFTILAVNNLQLK PAKRFWKVLPPQGNQPIWIP SRYLKPYHKPDAKEEIPESQG FPVAAMSRLTLRRTPTVTSNTH RTQPPTWGQIEKLQMAEENLR KAGQPTISNWILPRITKFKPIE GAENVFTDGSSNGKASYSGSK GPLTEGNQMADRLVAKVISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIIQRCPTCQVMLSAAE QHLQKSAKTEAEKLVWWRD PITKSREIGKIITWGRGYACVSP GPNQQPIWIPSKHLKPYHKPDA GEKIPGESR/ETPGCSHVKTDAE EDANCHEQHPSNTATHLGTDQ EAVTDGGRKPEESGTTSHNE*F NDSGDHCLQQGL
8578	38946	A	8635	820	1344	PDGTTRDAGRDLRSVSWETL RGCPAVRKDSIGWIRLSRTLKK NVHLCPLPRGQGLFVCPVTSSS PQHISSHRGFWNISKDAPMSWP GSYSCHNVVAPVGQGG*SRRA RMLRGLLSKAGHHSFCTDQAID LEITKFTFTWTD*VTLGQ*FMLS ES*SSCKPNSCCPVQCLVHSGG
8579	38947	A	8636	3	760	

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8580	38948	A	8637	1	1354	MGISCPGSSKMLNSRALPVLKL TQGALRDCRERANYTNFNIYK AVESQGKFVCLVYNGQQSPEY VMIPCTSVSPTGQEVPEDRGMR MVMKNKPNKPSKMQLKSSKH LTNSVIVIAVGIFSVTLQARDP QLDDAIEQLRGVCIRAW EKITS GGEQYPSFSAIKQGPKEPYIDFI ARLQESLKKMIADSA AQDIVLQ LLAFDNANPDCQAALRPIRGKA HLVDCIKACDDIGDGSSNGKAS YFGSKSKVFQTSYTSQA KAE LV AVIEVLTA FDM PINVISDSSYM VYSTQLIENAQLRFHTDEQLMT LFTQLQTA FRSTMHPFYITHIRA RHTPLPGPLTEGNQMADCLVA TAVSNARHFHNLTHVNASGLK CRYSNTWKA AKAIHQRRPTCQ MVHSSSFTGGVNPQGLEPNSL WQMDVTHVPSFGRLAYVHVC VDTFSHFVWATCQSGES
8581	38949	A	8638	596	1820	
8582	38950	A	8639	275	1495	RLGSSLLEYT/LPDQQGNIIATFE PFPFKFGKAHSVDYIKACDGIG GPLTEGNQMADCLVAN AISNA RHFHNLTHVNASGLKRRYSIT WKEAKAIQQCPTCQMVHSSSF TGGVNPRGLEPNSLWQMDVTH VPSFGRLAYVHVCVDTFSHFV WATYQSGESSACVS\KHPLLQC FVVVGIPAFIKTDNAPGYTSQA LATFFSVWNIKHITGIPYNSQGG AIVERMNLSLKQQLQKQKGGN RDYR/TTP*MLNLALLTLNFLS LPKGQMFSAAEQHLQKPAAKT KTEQLIWWRD LITKSWEIGKIIT WGRGYAYISPGQNQQPIWIPSR HLKPYHEPDA\RKRLQEDPEDP PSCSHVKTDAEEDPNCHEQHPS NTAIHLRSDQEA VTDGRRKPEE WSGTRTWWRPWSCRT
8583	38951	A	8640	232	789	ERPWGPEGNSEGSFCPKGLEPR TCLRGPAASAAAGAEGRQDPP GGPWCSAAGDLGSPGVQSPG GGSPRGAQVAMSGSRRRRAEP GVWGALQ*HRR*ARRMHSFPP SL/PLL*NG*SPLFLVSKCLTGSP LRSASPCPPAARSC*KHPDSSPG RPGGARQSPALHPALPSLARRA APGRSFPLTSRK
8584	38952	A	8641	1	149	

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8585	38953	A	8642	1	2541	
8586	38954	A	8643	1	989	MQRGQQATGSSANAWGILQPK WVQTGPDNKRMARNVLYER LLAESPNNHVVAEAVIQRPNIPHL QTRDTYEGLCQTLGSQPTLYQI PSLYCSYETNSNAYLLLQPIRKE VIHLEPYIALYHDFVSDSEAQKI RELAEPWLQRSVVASGEKQLQ VEYRISKSAWLKDTVDPKLVTL NHRIAALTGLDVRPPYAEYLQV VNYGIGGGHYEPHFDHATSPSSP LYRMKSGNRVATFMIYLSSVE AGGATAFIYANLSVPVVRVVQ/ WPGTS*AFDNQCQNAALFWW NLHRSGE GSDTLHAGCPVLV GDKWVANKWIHEYGQEFRRPC
8587	38955	A	8644	2	505	AWLKDTVDPKLVTLNHRIAAL TGLDVRPPYAEYLQVVNYGIG GHYEPHFDHATSPSSPLYRMKS GNRVATFMIYLSSVEAGGATAF IYANLSVPVVRVVQ/WPGTS*A FDNQCQNAALFWWNLHRSGE GSDTLHAGCPVLVGDKWVA NKWIHEYGQEFRRPCSSSPED
8588	38956	A	8645	298	401	KKSLVRRSWRMKELKKKIGQ Y*RKLGRLLKGKAI
8589	38957	A	8646	1	417	FRAAPAPESGGESVFGETHRAL QGAMEKLQR/RLWKEKVDLKE RVEKLELQFIHLSGQTDITGRK YISQGAVSETQHWE/KEDIVRL AQDQEEMKVNQLQELR/EQVLQ LVGDHKEGHGK/FLTIAQNPAD EPTLGAPIAQELGC
8590	38958	A	8647	2	430	AAVKPLGSAETA VPIARLGCR FSRSRCCRRRGRGSLLSFSAAK VAFFNSAGANAQEEQRVCCQP LAHPVASSQKKPEVAAPAPESG GESVFGETHRALQGAMEKLQR/ RLWKEKVDLKERVEKLELQFIH LSGQTDTHNKISY
8591	38959	A	8648	1	2769	
8592	38960	A	8649	1	314	FVNLFEIPVRVVEFGATCRAVA EPEQQR*SPSARPPCPLLASV AAALAAAAAAGGEAAAYCL SPRRR*GAVSARPAGEPREPHE WNNRRSDFKRRRRGRDG
8593	38961	B	8650	46	307	
8594	38962	C	8651	1	4584	
8595	38963	B	8652	438	532	
8596	38964	B	8653	832	927	

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8597	38965	A	8654	320	1136	RIMETIANLSSQSPVSLPLRVGL AEYLEMEED/DLDSEQEAPRPM PNIPGDLESREP/QVAFFNSAGA SAQEEQRVCCQPLAHPVASSQK KPEVAAPAPESGGESVFGETHR ALQGAMEKLQVTTLWKEKVD LKERVEKLELQFIHLSGQTDITV SERLGHRWGELPGHPRGPSI*A MSSCRKVHQPGGSVRDAALGE EDIVRLAQDQEEMKVNQLQELR/ EQVLQLVGDHKEGHGK/FLTIA QNPADPTLGAPVAQELGCAD EQGGFYPRSPDC
8598	38966	B	8655	97	235	
8599	38967	A	8656	1	2104	
8600	38968	A	8657	3	1107	FMTTDERKLFNHLKSPHLKYW VPFIWFGNLATKARNEGRIDS VDLQSLMTEMNRYRSWCSLLF GYDWVGIPLVYTQVVTAVYT FFACLIGRQFLDPTKGYAGHD LDLYIPIFTLLQFFFYAGWLKVA EQLINPFGEDDDDFETNWCIDR NLQVSLLAVDEMHMSLPKMK KDIYWDDSAARPPYTAAADY CIPSFLGSTVQMGLSGSDFPDEE WLWDYEKHGHRHSMIRRVKRF LSAHEHPSSPRRRSYRRQTSDDS MFLPRDDL/HSQGPTGCALKK PPQGLTHLE/DNPASQKEAPRCT SAWESCPPSGRPARQALYRA*P HSPV*ELPPSKCHGT*GIDHSSR STSAHIRGLPP*FRYLHLEL
8601	38969	A	8658	3	397	
8602	38970	A	8659	346	474	

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8603	38971	A	8660	1	1344	MHSTWLCFPARLLKELPFPQGL FPRLTIRASRTPPAALERVTRD PCAATCLDRGSLKGILGHSPFQ SPPVTSHCAENPNTLKAPPPYV GATSALVLSLGGPVPWLSVEL SIRTFASSGLIYYMAHQNQADY AVLQLHGGRLHFMFDLGKGR KVSHPALSDGKWHTVKT DYV KRKGFITVDGRES PMVT VVG GTMLDVEGLFYLGGLPSQYQA RKIGNITHSIPACIGDVT VNSKQ LDKDSPVSAFTVNR CYAVAQE GT YFDGSGYAALVKEGYKVQS DVNITL\FRTSSQNGVLLGIST AKVDAIGLELVDGKVL FHVNN GAGRITAAYE PKTATVLC DGK WHTLQANKSKHRITLIVDGNA GWR*KSHTPQSTPVD TN NPIYV GG\YPAGVKQKCLRSQTSFRGC LRKLALFVRGPQVQS FDFSRAFE LHGVFLHSCPGTES
8604	38972	A	8661	3	92	
8605	38973	A	8662	2	158	HTFPTFSSSPHLVMMIQPSSSSP PPPLPPPPSS\PLPLPPSPPLLL FFL
8606	38974	A	8663	21	471	DGPQDQPPHQPS SSPPPPLPPP PFPPPLPLPPSPPLLLFFCSDEA LLCCHTGVELFFVIFAYCSG/PE TEPAISPRYASSSGLNGFPLPRT PPAYA*IPSSGIHFNPSLAIKPST TTTLVRTPTTHHHSRRPTITTQS STTAP SRLHP
8607	38975	A	8664	2	105	
8608	38976	A	8665	3	265	RKDLYANTVALSGGTTMYPGIA DRMQKEITALAPSTMKIKIAPP ERKYSVWIGGSILASLTFQQM WISKQE\DESGPSIVHRKCF
8609	38977	A	8666	3	757	NTPAMYMAIQA VLSLYTSGRT TGIAMDSGDGVAHTVPIYEGYT LPHAILHLDLAGWDLTDYFMKI LMECSYRFTTMAEQEIVCDIKE KLCNIALDFEHKMATGASSSSL EKSYEVPDGGQVITIGNEWF/*VP EALFQPS/MGMESCGIQETTFNS IMKCDVDICKELYAKMVLSSGT TMYLGIADRMQKEITALGRPST LRFRFIAPP/ERRKYSV\WIGGSI LASLSTFQQ\MW\ISKQE\YDES GPLHPSTANCF

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8610	38978	A	8667	3	171	CPLCRGNHWKVHCPSGR/MVP* VRSPQDDPTTGQRVPGASASS CHHPH*APGTFNH
8611	38979	A	8668	1	325	SPSRTC YQCGLQGHF*KDC/TSE KPPPRPCLLCQGNHWKVHCPR/ VTKVLWVRSPQDDPATGLRV PDD*EHTIRRAYALGKSAVTSK PPPPYPARSRLNVRRLCSLATN
8612	38980	A	8669	3	377	
8613	38981	A	8670	1	423	
8614	38982	A	8671	1	1659	
8615	38983	A	8672	1	1449	MVNDTDRPKVQVEYKGETKIF YPEEVSSMVLTKMKEIAEAYLG KTVTNAAVVTVPAYFNNSQHQ TKDAGTIAGLNVLRIINEPSAAD IAYGLDKKVGAERNVFIFDLRG GTFDVSILIIQDGIFEVKSGDTHL GEEDFDNRIVSHFIAEFKHKYK KDITIRDVKLDKSQIHDIVSIGG YTHIPKIQKLLQDIFNRKELNKS INLDEAVAYGAAVQAAILSGD KSENVQDLLLLDVNPLSFGIEL AGGVM TV/LPVLIKHSTTIPTKQ TETF*QPIYSDNQPGVYEGECAM TKDDNLLDKFELTGIPSAPHGV PQIEVTFDIDANGILNVSAVDKS VGKENTITTTNDKHRLSKEDM NIWSAEKYKAEDKRQRDKVSS KNSLESYAFHMKATVKDEKLQ GKINGEDKQKILDKFNEVIKWL DKNQAAKKEEFHQQTELEKV CNLIISKRYQSAGGMPGGMPGG FPGGGAPPSSGASSRPITEEVD

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8616	38984	A	8673	18	1388	TRLQLLGFLWLPSLLEPGLHPS NHGPRGPAVGIDLGTTYSCVGV FQHGKVEIIAN\DQGNRTTPSY VAFTDTERLIGDAAKNQVAMN PTNTSF*LPNGLIGR\RFD\DAVV \QSDMKHWPFMVVNDAGRPK APS*NTKGETKSL\YPEEGVFLW V*PKMK\EICRSLTLGKTVTNA\ VVTVPSTYFNDS\QRQATKDAG TIAGLNVLRI\INE\PTAAIA\YG LDKKGLEQKRNRALLTWGG GTF\DVSTILTIED\GIFE\VKSTAG DTHLG/GEEDFDNRMV\NHFAE FKRKHKKDISENKRAVRRLRTA CERAKRTLSSSTQASIEIDSLYE GIDFYTSITRARFEELNADLFRG TLDPVEKALRDAKLDKSQIHDI VLVGGSTRIPKIQKLLQDFENG KELNKSINPDEAVAYGAAVQA AILSGDKSENVQDLLLLDVTPL SLGIETAGGVMTVLIKRNTTI
8617	38985	A	8674	2	1559	RYLNWIGTPTKGMSLKAFVQQ PHKSYWLKTLLPDNMEALQIR K*VPNILGTCAVSWLKGPCSDV AVKKFFIFSLGNYWEGN*LI*EH GYKVV*HSNSYLEPISPAQTPK KRTTSYFSTLLCLRLRSCLSFLK RIECYEVNYPQLDEELDR*EPAP QSQGLDLSPSFDIL*DHIQSRTV YYLMNIHVTPRSIYLCRHGESE LNIRGRIGGDSGLSVRGKQVG WATHTQMGWLGCPRWAAGFP ILPSRPYPNAGVTLAAPVPTHDS VLPALPTRAGGQDETEPGLKAG PTGLPSAPPLEMGGGAPGKALS WMATPWCLPFCYVEVALTCAA PTVYQAVVWVLPPIHYLKCSPT AGQMRQCSLDMRPERGRDVSE GTRDHVRELREFNLWLIPPCQG LLPTSHMKRTIQTAEALGVPE QWKALNEIDAVRCMG*ISCVW G*LESGIPLRDQDKYRYRYPK GEVRFAGWPNA*DYSVSSLQL NVLLICHQASMRCLLAYFLIKS SGTTLISALGMFDGI
8618	38986	C	8675	16	206	
8619	38987	A	8676	157	413	ALVCS/SSLAIREMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
8620	38988	B	8677	877	2126	

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8621	38989	A	8678	1	1731	
8622	38990	A	8679	2	1675	
8623	38991	A	8680	1	2142	MIILIDAEKAFDKIQPFMLKTL NKLGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLAQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHTLGPV VGWGKRGGIALVDIPNVNDKL MVLEVLARAIRQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSHIYNH LIFYKPDKNKKWGNDSLFNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVIKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELKQIYRKK\TNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
8624	38992	A	8681	1	1242	

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8625	38993	A	8682	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLARQANIQIQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQLKELEK QEQTYSKASRRREITKIRAELEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITTDPTETIQTIREYYKHLY TNKLENLEEMDKFLDTYTLPRL NQEEVESLNRPTGSEIEAIINSL PTKKSTGPDRFTAIFYQRYKEE LVPFLLKLFQSIEKEGILLNSFYE ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPFMLKTLNKLIGDGT LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
8626	38994	A	8683	1	5127	
8627	38995	B	8684	1	1461	
8628	38996	A	8685	2	1879	
8629	38997	A	8686	1	1299	MKLPEEGSGSIICCSAIFAVLQL PLVIHRQTGYGEDLQQTPTDLQ LRDLTDHSSSPAMEQSWMEND FDELNRSRLQKANKLENLEETD KFLDTYTLPRLNQEETESLNRPI TGSEIEAIINNVPTKKSPGPDGV TAKFYQRYKEELRTVNKNHMII SIDAEKAFDNIQPFMLKTLNK LGIDATYLKIIIRAIDDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLAIRAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLINNFSGYKI NVQKSQEFLYNNRQTENQIM SELPFTIASKRIKYLGIQLTRDV KDLFKENYNPLLNEIKKDTNK WKNIPCSWIGRINIMKMAILLK VIYRFNAIPIKLLMIFFTELEKVT TLKCI*NQKRAHIAKPILSQKNK
8630	38998	B	8687	1	2187	

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8631	38999	A	8688	1	1698	MMGDFNTPLSTLDRSMRQKV NDIQELNSALHHMDLIDYRTL HPKSTEYTFFSAPQRTYSKIDHI VGSKALLSKCKRTEIITNCLSDH SAIKLELRIKKLTQNHSTWKLN NWLLNDYWVHNEMKAEIKMF FETNEIKDTTYQNLWDTFKATL NQEEVESLNRPTGSEIQAMINS LGTKK/SPGPDGFTAKFY/PE*H DCISRKPHRLSPKSP*ADKQLQ QSLRIQNQCSKITSILIHQ*QTNR EPNHE*TPIHNCIKDNKIPRSPTY KGCEGPLQGELOTTAQRNKR G HKQMEEHPMLMDRKNQYHEN GHTAQGNL*IQCHPHQATNDFL HRIGKKYSKVHMEPKKSLHCQ VNPKEQSWRHHTT*LQTLQ GYSNQNSMVLVPKQRYRPMEH NRALRNNATYLPKSDL*ET*QK QEMGKGFPI*QVLGKLASHM *KAETGSLPYTLTKN*FKMD*R LKC*T*NHKHPRRKPRQYHSGH RHGQGLHV*NTKSNNGKSNQ* QMGSH*TKELLHSKRNYHQSE QATYRMGENFCNLLI*QRANIQ NLQRTQTNLQ/RKKQPHQQVG
8632	39000	A	8689	1	5073	
8633	39001	A	8690	128	1407	EKKASDDQTPSYRRKFKPKA KKLNTLKKI*TN/RITRITNREKC LKELMELKAKARELREECRSLR SQCDQLEERVSVMEIQTIRE YYKHLKENKLQNLLEMDKFLD TYTLRRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELIPFLKLQFSIEKEGI LPNSFYEASIIIPKQGRDTTKK ENFRPIFLMNINAKILNKILANRI QQHIKKLIHHDQVGFIQPMQG WFNICKSRNVIHHINRTKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGIDETYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLFELISNFSKVS GYKINVQISQAFLYTNYRQSAKS
8634	39002	B	8691	1	1443	
8635	39003	A	8692	1	1878	
8636	39004	A	8693	1	1479	

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8637	39005	A	8694	1	2091	MVFLEKISVGISRLSKQHPPFIR VALPLDADPTVSRIGSFQWVLG LADFRNEAVDPRDVQMCPEFIP SGGFVVFLTSGVKPQTFTVSITA LKGEPTQMRRNQKTNNGNMTK LGYLTPQKNHTSSPAMSPNQE IPDSPEKEFRRTTEASLTEGGTI NPIISWAVGNGSSKNLYHILGK GRKIFSSSGIKQKSIASGERQNF QRNDQTAFAVHENPLFCSHR CWYPGKQEKCLKELMELKAK ARELREECRLSRCDQLEERV SVMEDEMNMKREGKFKREKRI KRNEQSLQEIWVYVVRPTLHLI DVPETLNAHKRKQERSKTDLT SQLKELEKQEQTTHSKASRRQE TKIRAELEKIEKTLQKINESR SWFFERINKIDRPLARLIKRE KNQIDAINKDKGDTSDPTEIQT TIREYYKHLIYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIVAIHNSLPTKKSPGPDGST AEFYQRYKEELLISNFSKVS KINVQKSQAFLYTNNRQMESQI MSELPFTITSKRIKYLGIQLTRDI KDLFKENYKPLLNEIKEDRNKC KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLRMTFFTELEKTTL KFIWNQKRARITKSVLSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNRDIDQWNRTEPSEITP
8638	39006	A	8695	1	3514	MELKTKARELREECRLSRCD QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWVYV RPNLRLIGVPESDVENGTKLEN TLQDIIQENFPNLARQANIQIEI QRTTPQRYSLRRATPRHIIVRFTK VEMKEKMLRAAREKDRSTRQK VNKDTQELNSALHQADLIDIYR TLHPKSTEYTTFSAPHHTYSKT DHIVGSKALLSKCKRTEIITNYL SDHSAIKLELRIKNLTKSRSTTW KLNNLLNDYW
8639	39007	A	8696	1	2091	

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8640	39008	A	8697	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNMEN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIIQQEELTILKIYAPNTGAP RFTKQVLSDLQRDL
8641	39009	A	8698	1	1584	MSISGTVRMSAKSKGNPSSSCP AEGPPAASKTKVKEQIKIIVEDL ELVLGDLKDVAKELKEQHWW HPISGDTATSICTVLESEKSKIK VTAFDVWLHLWGKGTDKQKD SSNFCRLKCPCLTALKRAVVLP ARSWRCENGQTASSGSLTPDP RAANREAPPSRGRLTPHTASDG ENGTKLENTLQDIIQENFPNLAR QANIQIQEIQRTPQRYSSRKATP RHIIVRLTKVEMKEKMLRAARE KEIQTAIREYYKHLIYANKLENL EEMDKFLDAYTLPRQNQEEVE SLNRPITGPEIVAINSLPTKKSP GPDGFTAIFYQRYKEERHINRT KDENVHMIISIDAEKAFNKIQPF MLKTLNKLIGDGTIFYKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QECPLSPLLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFVDY MIVHLENPIISAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRIKYLGIQ LTRDVKDILFEEND

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8642	39010	A	8699	1	1722	MAGYPSEMKLPEELSGSNICCS AVFTVLQPLLLIPRQTGSGVDL RQTPTDLQLRVLTVRRKNNKQ KRTSTPKPHLYVTIHKDQRSKKL TQNHSTTWKLNLLNDYWV NNEMKAEIKMFFETSENKGTIY QNLWDTFKA VCRGKFIALNAH KRKQERSKIDTLTSQLELEKQ EQTHSKASRRQEITKIRAEQKEI ETQKTLQKINESRSCFFEKINKI DRLLARRIKKKREKNQIDAIGN DKGDITADPTEIQSTIREYYKHL YTNKLENLEEMDKFLDITYTLPR LNQEEDESLNRPITGSEIEAIIINS LPAKKSPGPDRTAEFYQRYKE ELHINRTKDKNHMTISVDAENA FDKIQQPFMLKTLNKLVLVLA RAIRQEKEIKGIQLGKQEVKLSL FADDVIVYLENPIVSAQNLLKLI SNFSKVSGYKINVQKSQAFLYS NNRQTESQIMNELSFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKDDTNKWKNIPCSWVGRIN IVKMGILPKVVYRFNAIPIKLP TFFTELEK\TTLKFIWNQKRARI AMTILS*KNKAGGITLP
8643	39011	A	8700	3	1033	
8644	39012	A	8701	1	1068	ANKLENLEETDKFLDITYTLPR LNQEEDESLNRPITGSEIEAIIINV PTKKSPGPDGVTAIFYQRYKEE LRTVNKNHMIISIDAEKAFDNIQ QPFMLKTLNKLIGDATYLKIIIRA IDDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLA AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI NNFSKVSGYKINVQKSQEFLYN NNRQTENQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYNPLL NEIKDDTNKWKNIPCSWIGRINI MKMAILLKVIYRFNAIPIKLLMI FFTELEK\TTLKCI*NQKRAHIA KPILSQKNKAGSITLR
8645	39013	B	8702	69	1055	
8646	39014	B	8703	1	2301	
8647	39015	A	8704	1	3189	

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8648	39016	A	8705	92	1139	ASAADTQANRVWSGPPANSNR PAA\RVLTVRRKTNKQKGHPH QNPICSPSSKTKEIQTIREYYQ HLYTNKLENLEEMDKFFDTYT LPRLNQEEVESLNRPITGSEIEAI INNLP/TKSPGPDGFTAKFYQS VGSSGQGNQAGEGNKGHSIRK RGSQIVPVC R*HDCISRKPHRLS PKSP*ADSQLQQSLRIQNQCAKI TSILIHQ*QTNREPNHE*TPIHNG FKQNKIPRNPA YKG CERPLQGE L*TTAQ*NKRGYKQMEEHSM L MGRKNQYHENGHTAQGNL*IQ CHPHQATKNFLHRIGKNYFKV HMEPKKGPHCQVNP KPKEQSW RHHTT*LQTLQGYSNQNSI
8649	39017	A	8706	1	2199	
8650	39018	A	8707	1	2238	
8651	39019	A	8708	3	1889	RSMRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFSAPH HTYTKIDHILGSKALLRKCKRT EIITNYLSDHSAIKLELRIKNLTQ NRSTTWKLNLLNNDYWVHN KMKAEIKMFFETNENKDTTYQ NLWDAFKA/EIQT TIKEYYKHL YANKLENLEEMDKFLDTYTLP RLNQEEVESLNRPITGAEIVAIIN SLPTKKSPGPDGFTA EFYQRYK EELVPFLLKLFQSIEKQGILPNSF YEASTILIPKPGRDTEKENFRPI SLMNIDAKILNKILAKRIQQHIK KLIHHDQVGFI PGMQGWFNIHK SINVIQHINRAKDKNHMIISIDA EKAFDKIQRFMLKTLNKL GID GTYFKIIRAIYDKPTANIILNGQ KLEAIPLKAGTRQGCPLSPLL FN IVLEVLRVIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVT AQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSELP FTIASKRIKYLGIQLTRDVKDLF KENYKPLLKEIKEDTNKWK NIP CSWVGRINIMKMAILPKVIYRF NAIPIKLPMTFFTELEKTK\FIWN QKSAHITKGILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN

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8652	39020	A	8709	1	1779	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSNIDHIV GSKALFSKCKRTEIITNCLSDHS AIKLELRJKKLTQNHSTTWQLN NLLLNDYWVNNEMKAEIKMFF ETNENKDTTDDQNLWDTFKAVC RGKFMALNAHKRKQERSKMG TLTSQLELEKQEQTHSKASRR QEITKIRAELEKET/QKTLQKIN ESRVEIQTTIREYHKHLYANKL ENLEEMDKFLDTYILPRLNQEE VESLNRPVGTGSEIEAIINSLPTKK SPGPYGFTAIFYQRYKEELHIN RTKDKNHMIISIDAFAFDKIQ QPFMLKTLNKLGDGTYLKILR AIYDKPTANIILNGQKLEAFHLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKWSL FADDMIVYLENPIVSTQNLFKLI SNFSKVSGYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL NEIKEDTNKWKNIPCSRAGRINI VKMAILPKVIYRFSAPIKLPM FFTELEKTK\FIWNQKRAHIAKS ILSQKHKAGGITLP

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8653	39021	A	8710	1	2093	MEITTNCLSEHSAITLQLRIKKL TQNCTTTWKLNYLLLNDYWV NNEMKEEIKMFFETNENKDTT YQNLWDVFKAVCRGKFIALSA HKRKQERSKTDLTLSQLKELEK QEQTHSKASRRQEITKIRAELE IETQKTLQEINDSRSSFSEKLNKI DRPLARLIKKKREKTQIDAIKN DKGEINTNPTEIQTIREYYKYL YANKVENLEEMDTFLDTYTLP RLNQEEVESLNRPTGSEIEAIN SLPTKESPGPDGFTAIFY/HEGN QERERNKGYSIRKRGSHIVPVC R*HDCLFRKPHLLSSKSHEAVK QLQQSLRIQNQWAKITSMPVH Q*QTNREPHE*TPIHNCYKEN KIPRNPTYEGCEGPLQGELQTT AQQNKRGQKEMEKHSMMLMDR KNHYHENGHTAHGNL*IQCHP HQATNDLHHRIGKNYVNFHME PKKSLHCQENPKQREQSWRHH AT*LQTILQGYSNQNSMVLVPK QIHRTMEQNRGLRNNTHLQPS DL*QI*QKQEMGKQFPI**MVL GKLASYM*KAETGSLPYTLK N*FKMD*RLKC*T*NHKNPRRK PRQYHSGHRHGQGLHD*NTRS NGNKNQNRQMGSN*TKELLHG KRNHQAQTTYRMGENFCNL PI*QRANIQNLQRT*TNLQEKNK QPHQKVKGHEQTLLKRRHLC SQQTHEKMLITGHQRNANQN

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8654	39022	A	8711	3	1805	PLSTLDRSSRQKVNKDIQDVISA LHEAGLIDIYRTLHPKSTEYTF SAPHHTYYKIDHIVGSKALLSK CKRTEITTNCLSDDRAIKLELRJ KKLTQNYTTTWKLNNLLSDY WVNNEMKAEIKMFFETNENKD TMYQNLWDTFKAVCRGKFI NAYKRKQERSKIHTLTSQLKEP EKQEQTTHSKASRRQEITKIRAE KEIDTQKTLQKISVSRWFSE NKIDRLIARLMKKKREKNQIDA IKNDKGDITIDPTTEMQTTIREY KNLYANKLENLEEMDKFLDTY ILPRLNQEEVELPNRPITGSE AIINSLP/TKKSPGPDEFTAKFY RYKEELQGVRQEKEREDTQLG KEEVKLLFAEDMIVYLENPIV SAQNLLKLNNFSKVSGYKINV QKSQAFLHTNNRQTESQIMSEC PLTIASKRIKYLGIQLTRDVKDL FKENYKPLLNKIKEDTNKWKN IPRSWLGRNNIVKMTILPKVIYR F/NTLNFIVNQERARIAKTILSK KNKAGGITLPDFKLYYKATVT KTARYWKQNIKKGSVWPISLK SEKRGHRTPLWKLCHNDVQG ELLKTIQFLFGSPLGHSSLDPSA
8655	39023	B	8712	1	1743	
8656	39024	B	8713	1	1260	

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8657	39025	A	8714	1	1842	VPPTTCGNYGSTIQDEIWMGTQ NQTISVSEEMMFQAEIASAQK MWNQHHITPSKVDHIVGSKAL FSKCKRTEIITNYLSDHSAIKLK LRIKKLTQNRSTTWKLNLLLN DYWVHNEMKAEIKIFFETNEN KDTTCQNLWDTFKAMCRGKFI TLNAHKRKQQRCKIDTLTSQLK ELEKQEQTTHSKASRRQEITKIRA ELKEIEAQKTLQKINESRSWIFE KINKTDRLLARIKKKKREMNQI DAIKNDKGDITTNPTIEQTIRE YCKHLYANKLENLEEMDKFLN TYTLPRLNQEEIESLNRPTGSEI EAIINSLPTKKSPGPDGFTAEFY QRYKEEMIEKKAFDKSQQPFM LKTNLKLGIDGTFKIRRAIYDK PTANIILNGQKLEAFPLKTGTRQ GCPLSPLLFNIVLEVLAREIRQG KEIKHIQLGKEEVKFSLFADDVI AYLENPIVSAQNLLKLISNFSKV SGYKINVQKLQAFLYTNNRQTE SQIMSEFPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNIKEDT NKWKNIPCSWIGRINIMKMAIL HKVIDRFSaipfkl/pkd/fftel EKTTLKFIWNQKRPRISKILSK KNKAGGITLR

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8658	39026	A	8715	1	1593	MGKKQNRKTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVVSAMEDEMNEK REGKFREKRIKRNEQSLQEIWD YVKRPNLHLMGVPESDGENG KLENTLQDIIQENFPNLARINKI DRPLARLIKKKREKNQIDTIKN DKGDITTNPTIEIQTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAEIVAIINS LPTKKSPGPDGSIAEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQTNRPNHE*TPIHNCFK ENKIPRNPTYKGCEGLLPGELQ TTAQGNKRGYKQTEHSMLM GRKNQYRENGHTAQGNF*IQ HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMEQNRALRNNAAYL QLSDL*QT*EKHAMGK/EFPI**
8659	39027	A	8716	1	1578	MGDFNTTLSTLERSARQKVNK DIQELNSGLHQADLIDYKTVKP KSTEYTFSGPHRTYSKIDHIVG SKALLSKRKRTEIITNCLSDHSA IKLELRIKKLTQNRSTTWKLNN LFLNDYWVHNKMKAEIKMFFE TNENKDTTYQTLWDTFKAVCR GKFIALNAHKKRQERSKIDTLT SQLKELEKQEQTHSKVSRRQEI TKIRAELEKETQKTLQKINESKI QTTIREYYKHLIYANKLENLEE MDKFLDTYTLPRLNQEEVESLN RPITGSEIEAIINSLPTKKSPGPD GFTAIFYQRYKEARPISLMNID/ AKILNKILANGIQHDIKKLIHDD QVGFIQPMQGWFNIRKSINVIQ HVNRTDKNHMIISIDAEKAFD KIQQPFMLKTLNKLIDGMYLK IIRAMYDKPTANIILNGQRLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIGQEKEIKGIQLGKEEVK LSLSADDMIVYLEKPIISAQNL KLISNFSKVS/GYKINVQKSQAF LYTNNRQTESQIM
8660	39028	B	8717	1	2982	

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8661	39029	A	8718	617	1155	SIAYQPKSPGPDGFTAIFYQRH KEELLISNFSK/VSGYKIDVQKS QAFLYTNNRQTESQILSEFPFTI ASKRVGYLGIQLTRDVKDLFKE NCKPLLNEIKKDTKKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEK\TTLRFIWN QKRDHIAKSILSQKNKAGSITLP
8662	39030	A	8719	1	1827	MGKKQSRKTGNFKKQRHLSFS KGIAVLHQQWNKAGQRLTFDE LREGFRPSNYSKLQKEIQTKGK EVENFEKNSDECITRITNTKKCL KELMELKAKARELREECRLRS RCDQLEERVSGMEDEANEMKR EGKFGEKRIKRNEQSLQEIWYD VKRPNLRLIGVPESDGENGTKL KNTLQDIIQENFPNLARQANIQI QEIQRTPQRYSSRRATPRHIVR FTKVEGKNIKGSQRERAEIQTTI REYYKHLYSNKLENLEEMDKF LDTYTLPSLNQEEVESLNRTITG SEIVAIINSLPTKKSPGPDGFTAE FYQRYKEEVVPFLLKLFQSIEKE VILPNSFYEARIIIPKPGRDTTK KENFRPISLMNIDAKILNKILAN RIQQHIKKLIHHDQVGFIPGMAI RQEKERKGIQLGKEEVKLSLFA DDVIVYLENPIVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQRESQIMSELPFTIASKRIKWL GIQLTRDVKDLIKENYKPLLNEI KEDINKWKNIPCSWVGRISIVK MAILPKVIYRFSAIPIKLPMTFFT ELEKTTFK\FLW\NQKRARIKS ILSQKNK/AGGITLPDFKLYYKA

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8663	39031	A	8720	1	1551	MEKFLDTYTLPRLNQEELES LN RPITGSEIEAIINSLPTKKSPGPD GFRAKFYQRYNEELVPFLKIF QSIEKEGILPNSFYEASIIIPKPG RDTTKKDNFRPISLMNIAVKILN KILANQIQKHIKKFIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKSHMIISIDEEKAFDKIHLPF MLKTLSKLGIDGMYLKIIRAIY DKPTANIILNGQKLEAFPLKTGT RQRCPLSPLLCNIVLEVLAIR QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPTVSAQNLLKLISN FSKVSGYKINVQKSQAFLYTNN RQTESQIMSELPFTIASKRIKYL GIQLTRDVKELFKENYKPLLNK IKEDTNKWKNIPSSWMGR\NIM KMAILPK/VTWMKLEIIVLSKLP QEQT KHRMFSLTGVFIEGRAL QNKSETSQRHPGATHSLPEYTI PGSSPSNFYWFTLGLKEEVTSG WKREKKKRKREGGKEGRKEG RKEGRKEGKKEGRKKGRKEVP
8664	39032	A	8721	1	1983	
8665	39033	A	8722	1	2436	
8666	39034	A	8723	1	3139	
8667	39035	B	8724	1	3558	
8668	39036	B	8725	1	2133	
8669	39037	A	8726	1	3051	MGDFNTALSTLDRSMRQKVNK DIQELNSALHQADLTDIYGTLH PKSTECTFFSAPHHTYSKIVHIV GSKALLSKWKRREIITNCLSDH SAIKLELRIKKLNQNCSTTWKL NNLLLNYYWTNK\KKREKNQI DA/IKNDKGDITTNPTIQTIRE YYKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGSE IEAIINSLPTKKSPGPDGFTAIFY QRMNYISFKSTWKIKNAYSLA HSREL RDGGQ
8670	39038	A	8727	1	2706	
8671	39039	A	8728	1	2573	
8672	39040	B	8729	70	2029	
8673	39041	A	8730	81	385	
8674	39042	A	8731	301	515	SSWQAPAPVLGSSWASKK*MK KKYAAQKQKSP*CKSIKCSF LRSASYAQLLSFSLSSCLCFSTC HSTLAWYCL*SSWQAPAPVLG SSWASKKRSLLWKEPSRSLPSF SITAR*ACCCLCSSTEPQLLKA QYLLSHSRTRSFRLQ

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8675	39043	A	8732	2	4207	DTHRLKIKGWRKIYQANGKQK KAGVAILVSDKTEFKPTKIKRD KEGHYIMVKGSIQQEELTILNIY APNTGAPRFTKQVLRDLQRDL DSNTIITGDFNTPLSTLDRSMRQ KVNKDIQELNSALHQADLIDIY RTLHPKSTENTFFSAPHHTYSKI DHIVGSKALLSKCKRKEIITNCL SDHSAIKLELRIKKLPQNCSTIW KLNNLLNDYWVHNEMKAEIK MLFETNENKDTTYQNLWDTLK AVCRGKFIALNA
8676	39044	A	8733	1	2770	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLRSR CDQLEERVSADEMNEMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQ TIREYYKHLANKL

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8677	39045	A	8734	3	2169	FKPTKIKREKEGHYIMVKGSIQ QEELTILKIYAPNTGAPRFTKQV LSDLQRDLDSHTLIMGDFNTPL STLDTSTRQKVKKDTQELNSAL HQADLIDIYRALHPKSTEYTFFS APHHTYSKIDHIVGSKALLSKC KRTEIITNYLSDHSAIKLELRKN LTQNHSTTWKLNLLLNDYWV HNEVKAEIKVFFETKENKDDTY QNLWDAFKAVCRGKFIALNAH KRKQERSKIDTLTSQLEKEKQ EQTHSKASRRQEITNIRAEKEI ETQKTLQKINESRTEIQTIREY YKHL YANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPTGSEI VAIINSLPTKKIPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASIIIPKPRDRTTKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIPHDQVGFIPGMQGW FNIRKSINVIQHINRAKDKNHMI ISIDAEKAFDKIQPFMLKTLNK LGIDGTYFKIIRAIYDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIIYLEN PIVSAQNLLKLISNFSKVSQYKI NVQK\SQAFLYTNNRQTENQIM SELPFPIASKRIKYLGIQLTRDV KDLFKENYKPLLNEIKVEDTNK WKNIPCSWVGRINIVKMAILPK LIGNCSKISGYKINVQKSQAFLY
8678	39046	A	8735	1	5166	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWYDV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRMPQRYSSRRATPRHIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL

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8679	39047	A	8736	1	4553	MGRKNRKLDSRQHSYTSPOQRS HEDPAAVLQALSSSGVVIYQSL VAVQSPLAAPGCDGSRCEVRG LTVGSRYGWSRLAGCRDNEMV NACQSGWCYQNLTVLRGWKV LLEMPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAMKR ELRIKNLTQNRSTTWKLNLL NDYWVHNEMKAEIKMFFETNE NKDDTTYQNLWDIFKAVCRGKFI ALNAHKRKQERSKTDLTSQL KELEKQEQTTHSKASRRQEI
8680	39048	A	8737	1	2673	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDINRTLH PKSTEYTFPSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTPWKLN NLLNDYWVHNEMKAEIKMFF ETNKNKDDTTYQNLWDAFKAV CRGKFIALNAYKRKQERSKIDT LTSQLELEKQEQTTHSKASRRQ EITKIRAELEIETQKTLOKINES RSWFFERINKIDRPLARLIKKKR EKNQIDTIKNDKGDITTDPTIEQ TTIREYYKHLIYANKLENLEEM DTFLDITYTLPRLNQEEVESLNR PITGSEIVAIINSLPTKKSPGPDG FTAIFY/PESYL*QTHSQYHTEW AKTGSIPFENWHKTGMPSLTAP IQHSVGSQGNQAGEGNKGY SIRKRGSIQVPVCR*HDCLSRKP HRLSPKSP*ADKQLQQSLRIQN QCTKITSILIHQKQTNREPTHE* TPIHNCFKENKIPRNPTYKGC PLQGELOTTAQRNKRGHKQME EHSMLMGRKNQYRENGHT\SQ GNLQIQCHPHQATNDFLHRIGK NYFKVHMEPKKSPHRQVNPKP KEQSWRHHTT*LQTILOQGYSNQ NS\MVLVPKQRYRSMEQNRAL RNNAAYLHYSDEL*QT*EKQA WGKGIP\IYKMA\GLAS\PM*
8681	39049	B	8738	1	2792	
8682	39050	B	8739	156	391	
8683	39051	B	8740	1	2824	

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8684	39052	A	8741	3	4167	PLSTLDRSTRQKVNKDIQELNS ALHQVDLIDIYRTLHPKSTEYTF FSVPHHNYSKIDHIVGSKALLS KCKRTEIITNCLSDYNAIKLELR TEKLTQNRSTTWKLNPLND YWVHKEMKAEIKMFFETNENK DTTYQNLWDAFKA VCRGKFIA LNAHKRKQERSKIDTLTSQKE LEKQEQTHSKATRRQEITKTRA ELKKIETQKTLQKINESRSWFFE KTNKIDRLLATLIKKKREKNQI GARKNDEGAITTN
8685	39053	A	8742	1	1107	MKVEIKTFFETNENKDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQKELEKQEQT HSKASRRQIQTIGEYKHLTY NKLENLEEMDKFLDTYTLPRLN QEEGESLKRPMAGSEIEAIINSL PTKNSPGPDRTAEFYQRYKEE L/PDKQLQQSLRIQNQWEKITSI PIHQ*QTNREPHE*TPIHNCFK ENKIPRNPTYKGCEGPLQGELO TTAQRNKRGHKQMEEHSMMLM DRKNQYCENGHTAQEETAFACT HSRRESSRLGLLVANFRACHQE RFRRERSVPAGVHAEAHPCWE NRGREERHWEQHPGPETVLLQ AGGHVCDQGLHHGQPQVGQV PRGSRGHSGHFQLPSVQDRSWL
8686	39054	A	8743	1971	5654	RSPTAGRNTNYP SRDYKHL A\NKLEN\LEEMDKFLDTYTLPK T/ITQEEVESLNRPIG\SEIVAVI NSLPTKKSPGPDGFTAKFYQRY KEELHINRTKDKNHMIISIDAEK AFDKIQPPF\MLKTL\NELGID GT/YFFKIIIRAIYDKPTANIRLE WGQKLEAFPFEKLAQE QGMPL LLNPLPQSNIVVGKFLA\RA\IRQ EKEIKGIQVEKQEVKLSLFADD MIICLENPI\VSAQNL\KLISNVS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
8687	39055	A	8744	1	4901	MTGSNSHITILTLNINGLNSAIK RHRRASWIKSQDPSVCCIQETH LTCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTEYTFFLAPH HTYSKIDHIVGSKALLSKCKRT EIITNYLSDHSAIKLELRIKNLTQ SRSTTWKLNNL
8688	39056	A	8745	2	1887	SASVVPASGLRPSSTSLTSTRQP RFLGLLRSHPALVAVPGDWD DLAVCCIVAPSHVCRMVFMVD RTLGISLPGLLKREEDACWVEA NINGRVLAQCNIDELKKEMNM NFGDWHLFRSTVLEMRNAESH VVPEDPRFLSESSSGPAPHGEPA RRASHNELPHTELSSQTPYTLN FSFEELNTLGLDEGAPRHSNLS WQSQTRRTPSLSSLNSQDSSIEI SKLTDKVQAEYRDAYREYIAQ MSQLEGGPGSTTISGRSSPHSTY YMGQSSSGSIHSNLEQEKGKD SEPKPDDGRKSFLMKRGDVIDY SSSGVSTNDASPLDPITEEDEKS DQSGSKLLPGKKSSERSS\LFQA SLK\LKGRGLRLSKLPSEEDC GAEESDNTPLLK\DDKDRKPEG KVERVPKSPEHSVEPIRTFIKAK EYLS\DALLDNKGNSSDSWSVD PRES\SPNHVSAQCKCADDLPD LKRHNLI\LEDDSHSGKRG\IPH SLSGLQDPIHARMSICSEDKKSPS RIASLD*PSSP\EENWP\ACQKA YNL\NRTPSTVTLNNSAPANR ANQNFDEMEGIRETSQVILRPSS SPNPTTIQENLKSMTHKRSQR SSYTRLSKESPELHAA\SSSESTG

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8689	39057	A	8746	1	385	EGNEAQTCSFWNTRRQLASS DPSLSVSQRMDSWRSSHSWP QMPDPSGRAPVRPHLAKLEED VWPCPQFHQTKAASGPPFVTFQ PANCFPSVISFHLHCHTWSEQD RAYHPVYQMR**GSDVQLLEY EASAAGLIRSFSEFPEDGPELE EILTQLATADARFWKGPSEAPS GQ/ALRK/SVWPCPQFHQTCAA SGPPFVTFQPANCFPSVISFICT AIRGVSKTGLTILSTR*GNGSSE KSLV
8690	39058	A	8747	2	2015	QDFLDSQNLSAYNTRLFKEVD GEGKPYEYVRLASVLGSEPSLD SEVTSKLKSYEFRGSPFQVTRG DYAPILQKVVEQLEKAKAYAA N\SHQGQMLAQYIESFTQGSIE AHKRGSRFWIQDKGPIVESYIG FIESYRDPFGSRGEFEGFVAVV NKAMSAKFERLVASAEQLLKE LPWPPTFEKDKFLTPDFTSLDV LTFAGSGIPAGINIPNYDDL RQT EGFK\NVFAGGIVLGCGLTPRK REK\TFLEEDDKDLIYLWKGPS FDVQVGLH/ESLLGHGSGKLFV QDEKGA FN\DQETRDPPQKRG EQIQSWNRTGETWDSKFSTIAS SYE\ECRAESVGLYLCLHPQVL EIFGFEGADAEDVIYVNWLN VRAGLLALEFYTPAFNWRQA HMQARFVILRVLLEAGEGLVTI TPTTGSDGRPDARVRLDRSKIR SVGKPALERFLRRLQVLKSTG\ DVTEGRALYEGYSTVTDAPPE\ CFLTLR\DTVLLRKESRKL SVQP NTHLEGNE/VSDVQLLEYEASR AGLIRSFSEFPEDGPELEEIFTQ \LATADARFWKGPQ*GPHSGPS LRKIVVALPPKFHQTCAA\SGPS HSVCVFRGWGGGGAGAWTLV LAPQLEGW*HNPLPICQHVSSLP NCFPSVIL/SFICTA\IRGVSKTGL TILSTKMR\NGSSEKSLV
8691	39059	A	8748	1	519	
8692	39060	A	8749	786	864	
8693	39061	A	8750	1	468	

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8694	39062	A	8751	128	605	MTWGTVPPLFHIFQMRCCHWSC QGIMRGWGLCSQTLNCLLLSK C*TCSRGGGQIWSRKFRLLVRVE *G*GNFKTPELQQPGVPPGLPP PGSCFKCRKSGHWAKECPQPGI PPKPCPICAGPHWKLDPCPTLA ATPRSPGTLAQSLTDSFPDIRG LAVED
8695	39063	B	8752	1	615	
8696	39064	A	8753	1533	1767	PSPTCPAIYS*KGGWSQRHSQG ACYTCRKSGHWAKECPQPGIPP KPRPICVGP*KSDCSTHLAAN PRAPGTLAQGSL
8697	39065	C	8754	84	329	
8698	39066	A	8755	911	1497	SQRKARDQRRKRNRKRASSIAK HKEPKRPILPSGKNSQEGVATH TKPLAQGKVWLD\NETNEIPN ANFRQQIRKLIKDGILRHRKPV TVHSRAQGWKSTLARRKGRHL GIESKKIDRHMYSLSYLLKLGKN VFKHKRILTEHSHKLLKADKAR KKPLADQAEARGSKTKEARKL REEHLQTKKEEIIKTLQSKEEKAK
8699	39067	A	8756	34	280	EVIHAAIGEEKGSY\NA**PWVE EQLTRQPLIHHQPASLHVS\Y/RC RYHSLYLKVKGNVFKNKRILM EHIHKLKADKARKKLLA
8700	39068	A	8757	1	692	AFLQELCLKSSTGELFFFAAV AAALSMLRLQKRLASSVLCCG KKNIWLD\NETNEITNANSRQQ IRKLIKDGILIRKPVTVHSRLRC RKNTLAR*KGRHMGIGKRKV PANA\RMPE\KVTWMRENEGF CRLASEDTRES\KKIDRPHVVT ALYLAEVKGNVFKNKRILMEHI HKLKA\DKARKKLAD\QAEA RRSKTKEATKRREERLP\ARPRK REII*TLSKEEETKK
8701	39069	A	8758	46	131	
8702	39070	A	8759	5	447	PATELPGLPTRPGMLCIWRGAP DWPEGPPSSGELSSIQPTQGLHN CFQPDGARPAAPGPVPGQLGAL PWSCRPPAEPTLFMESLVQWPP GDGIRQ*CEDAAELREPGVQRH QGSPG*VRTLPPLRGPSQVPA/G SSSSASPRSSIPGSRG

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8703	39071	A	8760	1	201	MPNIYTMEYYAAVKKDEFMSF VGTWMKLETIILSKLSQGGQKTK HRMFSLIGTRMKLETIILSKLLQ GQKNQTPYILTHRISFEDVRNY MPLAVIHSDESPILPLHEQQDAS ENGWIKDTERDADLEIYIVSGIG SFRWVLGLADFKSEAADPCGM KLQTFAVSVTALKGGASRVVH SSWWVCVLDFRSEAA YLSVT ALEGGASRV AHSSRFVVS LTSG VKLQFTFTVNATAHKGSADPKS EQHQDLLQRAKKHTFHSMKGE PRRVVAAGWGGAIKADSNNLI LLFQTIEKYCPWFPDKGSDLL DWDRVGTTL CQLMRDGVLLPI SVWTDWALIRVALLPFQSGDTL QLPQVNADVEPLPLPRCIGGITG PEGGDPGPGSFHYLVGVYYFLT CRSTWEQRKSPVALR**KLGP GSPSPGPMPPMHRGKSGSSTS ALTCS
8704	39072	C	8761	42	179	
8705	39073	A	8762	11	1713	PKTLKMGGGTAGLVGMGFSTT G\RTPSAPGRPHPCRGA P/GSPG KAGLFLQRPRLTGL*GSAPRG PG*MGCP\GTGRGSNSRH*RGPP RRPQAS*AAPFQPGPLETWTGP *SQVPGAPSPCNFSYPHREVPP WGPVPPPAPHGSCGWALALPR RKRAAVFSSWAPGQAGQLLDA ASVGAAP*QDIPPCRGSAPSPC SPHPPPGLES GPK\PGAASWAGP QTPFSGRAQQLCQEGPAGAGN TSGRSA*AASAGTCDGPRSGGR VRTYPGLP*CRWTPGSRSSAAS SHHCRMPSPGGHCTRLSMKRV GSAGGRQLQGRAPS*PARGT*Q RPRGGQSGLAAPLESRH*DGE *AFWRAETVRSSVQRRREFATG LSGPSS*PRWSTCSVP/ASSPGG GDVAGPQEGPRS FHC LPSCL*V RPSHPEGDAAP*GALHK*RMH EEGRPGPCGGWGLV/GSWE PV QCCRRNLARWGRAWNCLQFPE *PPGGPGLADSGFIQTARLNFQ GWASVSFSIKRPGRAILRPCPTS EFLLPESFVSGNCSSTERAMWP FWAPPRSAPGAENFPCASVPC

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8706	39074	A	8763	1	409	LTHLTAQNVPNLFARNERVICL FDTEFGPMAQILVGATIVGSIET VWAGTITPPREGIIKRWTWPAG ENDGSVALLKGQEMGRFKLGS TVINLFAPGKVNLEQLESLSV TKIGQPLAVSM*SKATQLGNPR
8707	39075	A	8764	1	1528	MTFVNAQAEDSQIFLYKRRYPV VEGYAPWLVSNGASELERIHYE GMDDVILLDFLPKELGFDMMN HILSFAPGANHGYIEHTFKEHG GATQAFAKENNHKAYKDTYG VSHITRHDMLQIPKQQQYKEYQ DTHDTPYCEPLPGETRLWGDT DVIGLFAETDMNDVVAILENH PLLGAGFAHKIEQLEDKDWERE WMDNFHPMRFGERLWICPSWR DVPDENAVNVMLDPGLAFGTG TIQTLSPAMLDSSSTHTRRMRS TLNLYEITRMSTVSTSEHSMTY TLVQVDMKEAQKPDASYRTF NEFFVRPLRDEVRPIDTPNVL VMPADGVISQLGKIEEDKILQA KGHNYSLEALLAGNYLMADLF RNGTFVTTYLSRPDYHRVHMP CNGILREMIYVPGDLFSVNHLT AQNVNPNLFARNERVICLSDETF GPMAQILVGATNGGSIETPESE GATVDESFFVGGPVGDFELLIC QERSALSGRCVI*SFNSAKVRFI QQSRP VKSA
8708	39076	A	8765	2	420	QNFKEIFVRPLRDE/VRPIDNDP NVLVMPADGVISQLGKIEEDKI VSNLFARDERVICLFDTEFWPN AQ/ILVGATIVCSIETVWAGT/IT PPREGIIKRWTW/QAIEEDSWQ NLGRVAG*NKLPTELCNNFDW AQTLSRNRG

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8709	39077	A	8766	1	1130	MHFAKKEDVSEIETGSDGEKPK ARAGCLIGNSERLFSVTFCVQF QATLPLSYTIMKHKDTGTSSVP ESIDASLEASQQNPAFLKTLTRS CSPSWPCSRNWPHELLPLTCPA QAGATPQLPGLGPPGHLPMNQ PASSFPPARPNAASQILTSTFHKP PPGSSLACCCCPGPCDWQEDSQ *PTPACPSWPPWPTQLSPSAAGS PINHSPIQGFHSQLLS*RSPGTEE P*EANKLPWTGHREPEPHGL PGHPCAAG/MHRPLAPTTA\IRPL ATLHGERQRHLHPGQRRRVPR APAESTEAPALWLHRPPECPEC SGHGPAALEQGAGMA*CRSCR HLPCFPGEADAGSREGPHQEV PRSKICQQPQAASFRICLHSIF
8710	39078	A	8768	179	1908	KKQNKSRGCNVNWAMRRALK MCIPYRNGHSIFLVMVKVERSK RFALKLSVAEKNQMPRNATVIE NSAGYSYGKMAFS*PRICTQIV GPRIISTTAVIS/SQPATHHRATR GAIIRTAFCGPCFGAGDTPINNG LSIRHTTRNFPNREGSKPANGQ MSAVALMDARSIAATAANGGY LTSASELDCWDNVPEYAFDVTP YKNRVYQGFVKGATQQPLIYG PNIKDWPELGALTDNIVLKVCS KILDEVTTTDELIPSGETSSYRS NPIGLAEFTLSRRDPGYVSRSK ATAELENQRLAGNVSELTEVFA RIKQIAGQEHIDPLHRVYRHCS RSGNCPSDVFDSSKKDPVQDHRP QKRVTLIWGYDIHPQIEIIQTGD NFFQFRAIANNFGFLRFYQIRHF GLSGQHGVQIFTADVERGVGL RLQRFPPVVKHAIVQRQVEVIAV AHIEVQADIFTRSFRAIEANGHK VEQHFDHRHPANGVRGTGGAVA ELMHPFAQLFRAGQVETAPCG GLGLIAQLFKVIRLQILRGESKK FSANLTALKLPLPMVYEGDKV LKHLLRPKFNLPPLVQPPKKML
8711	39079	B	8769	1	1881	
8712	39080	A	8770	2093	2287	

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8713	39081	A	8771	1	1358	MKINLKLTDNSKVADGQFANI VVFLINWFYIHATTCEIDNGGVI VADGFQASKAYSADSIVDYND AHYKTSVDQDAWGFVPGGDN PWKKYEPAKAWSASTVYVKG DRVVVDGQAYEALFWTQSDNP ALVANQNATGSNSRPWKPLGK AQSYSNEELNNAPQFNPETLYA SDTLIRFNGVNYISQSKVQKVSP SDSNPWRFVVDWTGKERVGT PKKAWPKHVYAPYVDFTLNNH HRRTDSFRSKATAELENQRLAG NVSELTEVFARIKQIAGQEHDIP LQTEIGSMVYAVKPGDGSARE QAASCQRVIGGLANIAEEYATK RYRSNVINWGMLPLQMAEVPT FEVGDIYIPGIIKAALDNP GTT FKGYVIHEDAPVTEITLYMESL TAEEREIIKAGRIRHLLSDAMLA HLIRPTNRIESVGQIRHFRSIRHL LSDAMLAHLIRPTNRIEP
8714	39082	B	8772	21	1623	
8715	39083	B	8773	32	1850	
8716	39084	A	8774	1	1193	MSEVEAAAGATAVPAATVPAT AAGVVAVVVPVPAGEPQKGGG AGGGGGAASGPAAGTPSAPGS RTPGNPATAVSGTPAPPARSQA DKPVLATRVLPGLTAKRFNVRS GYGFTNRNDAKEDVFVHWT VKRNNPRKFLRSVRDGETVEFD VVEGEKGAQATNVTGPRAAGV PMKGSRYAPNRRRFR*FIPRPPS VAPPPMVAEIPSAGTGPGSKGE RAEDSGQRPRRWCPPFFYRRR FVRGPRPPNQQQPIELTGAFACS QGTDRVEPKETAPLEGHQQQG DERVPPPRFRPRYRRPFRPRRQ QPTTEGGDGETKPSQGPADGSR PEPQRPRNRPFQRRRQQAPGP QQAPGPRQPAAPEEAPTEAIKP MIAHDGHAPPNPSPTCCLEPSY QLVDVN

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8717	39085	A	8775	3	933	RHQESLCAPLEILQKKGCPCL EPLQRQPCPCQSSEVTA**NISF RFASPGGN/SPWASH*APSVRG AAPAGPVGLEAAAGSEPHPGP/ PDAGGARPVPGGAGSRPRMVL/ SPRSAPHLGGGRSA/PAMRTGN PCTHTQVVTTSPNLPNIP*GAKS HPI/VERPLS*KGTGPSAPQIATE NIYP*QLHGKGPLIRD*KIVPHD GAAGQSPLLPVRSCQRGYLP SAK*FFDALIKIFTLKFLHLRRFSC TSLRGLLVSPLLL PVRLLLAG WAHAWMHGCGGWEPRITQQR ASCQLPDRTKSKMRVKIPAANS SWLCH
8718	39086	A	8776	3	925	RGSEQIPPSSIPGAP*KMLFSPG/ SSEPEHL*TVPASSLGCRPGGPV ASRSRPPRPPARAALRGPPASSP IRFP\GASPRAPPTS*MRSGAGS KT/TPRPGPSASGDRPRAPCVRG PGCGSEPA AASSPTGPAGVPRA R*GPGHGQTSPHGW*PSSMQQ RTRRCSPSSVPGQFLLP/LSCS QVSPWTW*GLPYSLIPVSSLLP WPEDRVPSFVA/GPLPSFDNTS LPVEGGS*L/HPVCLLYVYQENS SKHIPYSCRGSRIFFSQRQVRM AGQRKLC DHPGGLISKPLAWT RIPEAPVVAAMVEGGGGL
8719	39087	A	8777	144	503	
8720	39088	A	8778	15	427	
8721	39089	A	8779	1	1055	
8722	39090	A	8780	280	1480	FQTRMGISVATIPGTSCSWMR ASEKEKDTFESTVQVSKLQDLI HRSKMARCRGRFVCPVILFKGK HICRSATLAGWGELYGR\QATT YFFSGGADDAWADVEDVTEED CALRSGDTHLFDKVRGYDIKLL RYLSVKYICDLMVENKKVKFG MNVTSSEKVDKAQRYADFTLL SIPYPGCEFFKEYKDRDYMAEG LIFNWKQDYVDAPLSIPDFLTH SLNIDWSQYQCWDLVQQQTQNY LKLLLSLVNSDGGTDSKSLVAI RTSVGVALAQTSIGNALAYGTK KAQEQSQDGLIHTSLKPTEILYL TVAYDWFLFGHMLVDRLSKGE EIFFFCFNFLKHITSEEFSAKKTQ RRKSLPARDGGFTLEDIC*DE RTVAVPPDLVCDCLPGHGEFPR

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8723	39091	A	8781	2	588	HSFFFPNREKCSTKR*RLSASRF PP*PWSRLPSG/QPAGGASAGSP SAPRGTGRGAGSRPAHG/VQPP RAHPEAPCPACPRSVGGAR/RA PEPSSNLSGEAPASGDRDVPPPS PLAR*VPLGGREFGWPWANAA LRPGKTP/RSDRVSRSPWS/PAG FSVPASWPRRSTSGNRGPPSRPS RLSRTSGPLNRLGEPFDVQGGL
8724	39092	A	8782	1	198	
8725	39093	A	8783	1	275	MAGAPAPASLPPCSLISDCCAS NQRDSMGVGPSEPGAGYNLVP VEKRSIRVGVTGFSRCCPSPLSL TRKGNSLTPWASQVRQCLALL QLAH
8726	39094	A	8784	349	478	KLSKFPYTEELSSGLYGIGSLCP HKYNCLVSSHRSCKN*VTGY
8727	39095	A	8785	1	325	FSEGNLYLVGIMHPLKAMLPG QYQTETFPFPGYLM/PCRLQQQ SHLLTLRDCCASNQRDSVGVGP SEPGAGYNLVVRRFLSLLEKRSI WVRVTRFSSALNHELVNDH
8728	39096	A	8786	113	313	
8729	39097	A	8787	2	1991	
8730	39098	A	8788	512	1178	
8731	39099	A	8789	135	1562	DTLVPTSQGDISRGLEGNLNSC PT*Q**RAPFLWCQ/PKAEWGT WIFNPEAEESLEPRSLISDCCAN NQRDSVGVGPSEPGAGYNLVV RSFLSPSEKRSVRVGVTRLSRCR PSPLSLTQKGNPLTPCASQVRQ CLALLRLRHVYFYFNGWKDYG VASLTTILDMVKVMTFALQEG KVAIHCHAGLGRGTGVLIACYLV FATRMADQAIIFVRAKRPNSIQ TRGQLLCEAQQSGAFSADVSGS HSPGEPVSPSFANVHKDPNPAH QQVSHCQCKTHGVSPGSVRQ NSRTPRSPLDCGSSPKAQLVE HETQDSKDLSEAASHALQSEL SAEARRILAAKALANLNESEK EELKRKVEMWQKELNSRDGA WERICGERDPFILCSLMWSWVE QLKEPVITKEDVDMLVDRRAD AAEALFLEKGQHQTILCVLHC IVNLQTIPVDVEEAFLAHAIKAF TKISIIFVNQNPEVTVLL
8732	39100	B	8790	563	2017	
8733	39101	A	8791	108	194	
8734	39102	A	8792	1	164	

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8735	39103	A	8793	1	1068	MEESRYWGTGRNRREGLKLQ WAQPAPLFNIRQGPNEGDNQQ GSYWEALASIMQIIHLVPSGLG MVTAFHCSWYLSTTATFPGVL NPALTEIKSGNYVVHGSFILQV ADYKEFQTLLMITKATFHQKTQ CWACEEGVQQSFHCPCRMQAA ASVERYTELLKEFLFKEHTCDN QEPTSTLHYHSLKLTVHIHVYSS RCTLPCQPSQAAQAEGISQPAP ACEDFVFAALAPP/ESG/RCPTL RLLGGLCTPTNARRTRTHSTTA CWARAQWDSLGLPLKLSHRPR VCGGTRAPGRQGCMMGNQRLGT SNSEARDPGGLRVKHR/CEAIQ EPPNRSRRQGAPLHSPPAY*MS SWRP*SFSKRHNLS
8736	39104	C	8794	78	331	
8737	39105	A	8795	129	1734	QWMHRMLDIFKGSSQHPSVPR VSSRPPLGPQGYSLHHFGTQGI HSATPINTQGLQPAPMGTTQQPQ PEGKTSVVVLADGATIVANPIS NPFSAAPAATTVVQTHSQSAST NAPAQGSSPRPSILRKKPATDG MAVRKTLIPPQPHDVASPRVES SMRSTSGSPRPAGAKPKSE\STC LWPLRSLCPWRLYPKIMISLPL PSLKLPSPPHRPFQL*LQQPVPR HNQPLPFQPFLESPSLHPSPLA HCTTSISHCGWQSFLRLGPSRS* N*SERRSRTNGYHEASF\VPPL ATNTVSPSLALLANNLSMPTSD LPPGASPRKKPRINNSMWISTEE GDMMETNSTDDEKSTAKSLLV KAEKRKSPPEYIDEEGVRYVP VRPRPPITLLRHYRNPWKAAYH HFQRYSDVRVKEEKKAMLQEI ANQKGVSCRAQGWKVHLCAA QLLQLTNLEHDVYERLTNLQE GIIPKKKAATDDDLHRINELIQG NMQRCKLVMDQISEARDSMLK VLDHKDRVLKLLNKNGTVKKV SKLKRKEKV
8738	39106	A	8796	1	169	RPTRPPKSNKRQCLFVFTP\KEE EPVRNILEKFNITISGSKVRSLYL HAPLLPLER
8739	39107	B	8797	156	398	

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8740	39108	A	8798	20	723	VWGGEFLLPRIWFMLPTSHQWM LFSVFLGWGSCQWSCSHLLSCL WRAAFSEFPLGPEPGEGIGPELC LCFQMEAIELSVDPKSNKRQCL VFVTP\KEEEPVRNILEKFNTISG SK/CTEVQRGVIYPGHIR*R**SI PRGF*FYK*GRPDSAGGHGPG GVLQGEKGHSACARQGGRFQE GAAFAQRETAGRRVQQRWCG DCFRTPVHRKSLSSPNFGGFGA GSEAVPCHLVLYLVW
8741	39109	A	8799	79	256	LRLTLFFQNLGGKSSMLWTA HPCPEGACSSSCTSLGSHLLSS FPVLGR*PGPSGDH
8742	39110	A	8800	402	996	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFSAATPEGP PLAS
8743	39111	A	8801	7	602	TFFKFPPDSGAQLASPRGSRIGA AGGAA\SSPEPSAALLSPWVVD GTGRPGAGGGARRGGSGCTGA HGGGGSSGM/VG/PAGPEPCPA GRQLRPGEKSSAAPLREPASAL AGPERGSHSAAAG*RAPQ\GRQ SGSPGRGGAESERGL*GLPSCC HLSPGSGAAA\PRSVGSRWPC GA\PTLATPPTSASFSAATPEGP PLAS
8744	39112	A	8802	262	349	KEGEGGK\PD*PVRMCPPKPSG HWKHPGE
8745	39113	A	8803	2271	2863	GGASGVVRSSWWARGLAGFRS EAADLRGLPVELRASPAPCVRT PQPLGGR\GIGRPGAEGGPCWG GSGRTGAHGGAEAGSSLGQP RKGLPQCSCG/PEGLLKCGQSG SPGRGRAQSERGL*GLPACCHL SH*PQGRQI*PRTCPTPFQSKTS DQGGPSGPAVSGSERQV*LHHQ *PGCRDYLCPFCFSWEINPVWG

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8746	39114	A	8804	3	561	NCPSLLVESCQECGSSIPFALPS TQVEHALYASER*QRAGSPHSP HLSVPPLPGLPLWRHLRSPS/G PPLH*PP*ASTLTGGPQ*RLGSA GINVSSEPVSRRPNV*SFPFPQY TVTLVKGWRSREPSKSSVLGS/ MVP*STKSEP*REPP*SLTGKA GERGEKGREKAIGSGR*GVAKC SDHVR
8747	39115	B	8805	298	380	
8748	39116	B	8806	1	1292	
8749	39117	A	8807	1	1224	MKPRTLAVSVTALKVARLEFV PSDVRMCSEFLPSGGLVVSLAS GVKLQTFAVSVTARNVDPKN SGAQLASPSGSSTRAASGAAC* SPSPPPCARTPQPLGGR\GTGCP GAGGGTRRGSGRGTGAHGAAE GVGSGLGQPRKGPPTVQWWAE GLLKCRQSGSPGRGGAESKRGL *GLPASTLSP\PPG\ECAGKSENS HMNLNCSGGS LGPGTGAHLPL GPDSGQPAETLLWGPCCGPGG TGLTSGGQTISLGCQGGQPRRE VKPPVPQRVSVLLVAVNPPPDS RCRVETDRPWRLCIQSCLCGTL KRDVLHSPSVVFNTTRGGTAE WSREDKDALLPEYALHMPFAV GFKLEYKEGVLSNLAAGPEK ELCEAKRNQCPKSGVSHTSRPL KPEWSDFVAEIDESKL PDRS
8750	39118	A	8808	1	1298	ESLRAGSFQEQEIQPELAPLIILRG FGTWPGWSFQATGFCVGVGRS PGSGFRGCGAYRAP*SFRTQLW PWQPLQGLDPKPLKDALRPSPL GRRACAEHHLCSADERPDLGFE GLQRWGGCRGSQGKPAVHQA WGRCGEGTGGGHTGSPPRLTP P/PGPGSFRAQPGERRPAACGQ QRALGPMRPPAC/GPSPT*GCA LNPTSPAPLV*GFIHIVAAFCSF VTPVSKSHSFQLGGELRVAGSD \GGRWGERENTQGSTLPPSSPAS SPGSPSPDPATPPGPATPGLIDIL LLLPMVASSRKHDFS GFSGRLP PQGEFFQ*GPTGWQSWVWPLD PSYLGGCQGGCGQGPRTGRRG ASSHCCVPAAP/GLSMDCSRGS GGSPPRSPPWALLGDLPSSLET VCLVMMFPCPIWMASEFAMEI QLLGPFWQIMLIGLCW

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8751	39119	A	8809	2	662	RIPLLVTRLKINEKVLQVLTNIF LFHDFSQVQNFQIKGLQLSLEHFY SQPLSVLCCNLPEAKRRINFLSN NQCENIRRLPSFRRYVEKQASE KQVALLTNERYLKEETQLLEN LHVYHMNYFLVLRCLHKFTSS LPKYPLGRQIRELYCTCLEKNI WDSEYASVLQLLRMLAKDEL MTILEKCFKGFKSYCENHLGST A*RIEEFLGQFQSLDEPRGRR
8752	39120	A	8810	326	1215	NPILHGNFIFMLDHSKLVQDQ E*TLM*/HYGPQVVTMCQCSFIE RNKRIPVVQGIRRGHVGWQ RYVEKQASEKQVALLTSECL KKETQLLENLHVYHMNYFLV LRCVHKFTSSLPKYPLGRQIREL YRTCLEKNIRNSEEYASVLQLL KMLAKDELMTILEKCFEVFKSS CEKHLGSTAKRIQEFLAQFQSF DETKENEALKREEGCIPNITPDI CIAKLYLECRRLINLVDYSQA FATILTAAEKMDANSTSSSEEMN EIIYAWCIRTVFELLELGFIPKTK QKTDHVARLT
8753	39121	A	8811	70	613	SLLEMKELRRSKQTKFEVLRE NVVNFIDCLVREYLLPETQPL HEVVYFSAHAHLREHLNAPRI ALHTALNNPYYLKNKSE EGCIPNIA\PDICIAKYLHLECSR LINLVDWSEAFATVVTAAEKM DANSASSEEMNEIHHARDIRAVS ELELLGFIPKTKQKTDHVARLT WGGC
8754	39122	C	8812	598	762	
8755	39123	C	8813	138	296	
8756	39124	A	8814	1	395	

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8757	39125	A	8815	2	1289	DDLCAAFKVLHDKQRGPTGF YAPFNSRPL*KPQLAHSIILMET ATERJSRLLLPFADQHVEIPSLT AGNIALTVGLKHTATGDTIVSS KSSALQLVEPNGREKRSTDK TMKAERLLLAGSGRFQEPVFFC TIGTPITV*GSQIWEHAFEMSFS VRIPVLKVRDPDSGQTVLCCG MGELHIEIHDRIKREYGLETYL GPLQVAYRETILNSVRATDTLG *EL*GDKRHLVDLLGSGKARPI ETSSVMPVIEFEYAESINEGLLK VSQEIENGHSACLQGPLLGSP IQDVGNYLYIP*QIHPWAPSTTY DFCLCLKMPCKKALERKADKQ VLEPLMNLEVTVARDYLSPL ADLAQRRGNIQEIQTRQDNKV VIGFVPLAEIMGYSTVLRTLTSG SATFALELSTYQAMNPQDQNT
8758	39126	A	8816	545	849	LAIHLSSLISRHDDEATRSTSE GLEEGEVEGETLLIVESVEDQAF S/VDLSHDQSGGISLNSDEGDVS WMEEQLSYFCDKCKQKWIPASK ELLNSFDLSIPV

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8759	39127	A	8817	1	2395	MDSSIHLSSLISRHDDEATRST SEGLEEGEVEGETLLIVESDQA SVDLSHDQSGDSLNSDEGDVS WMEEQLSYFCDKCQKWIPASQ LREQSYLKGDNFFRFTCSDCS ADGKEQYERLKLTHQVVML ALYNLSLKSGRQGYFRWKED ICAFIEKH*TFLLRNRKKTSTCR STGAGCLSVGSPMYFR*GA*EF GEPRWWKL VHNLP LTMKPERE KTAATLNIFAASKPTLDPIITVE GLRKRASRN PVESAMELKEKR SRTQEAKDIRRAQKEAAGFLDR STSSTPVKFISRGRRPDVILEKG EVIDFSSLSSSDRTPLTSPSPSPS LDFSAPGTPASHSATPSLLSEAD LIPDVMPPQALFHDDDEMEGD GVIDPGMEYVPPAGSVASGPV VGGRKKVRGPEQIKQEVESEEE KPDRMDIDSED TDSNTSLQTRA REKRKPQLEKDTKPKEPRYTPV SIYEEKLLLKRLEACPGAVAMT PEARRLKR\KLIVRQA\KRDRGL PLFDLDQ\VVNAALLLV DGIYG AKEGGISRLPAGQATYRTTCQD FRILDYQTS\PSRKGFR\HQ\T TKFLYRLVGSEDMAVDQSI VSP YTSRILKPYIRSDPHWTPEPDAP LDYCYVRPNHIPTINSMCQEFF WPGIDL\SECLQYPDFSVV VLY KKVIIAFGFMVPADV\KYNEAYI SFLFVHPNWRRAGIATFMIYHL
8760	39128	A	8818	3	364	GDSVPTAEGGDQVCVILSSVPQ TVWEPMFNKRACG/P*SP*SLSA TSIYPRELKAGTQKDTCP PVFR AVLFTTATQCPSTDAWMNKM WYSRTMECYSALKRKEIPPHAT ARHPMCLQFCRW
8761	39129	A	8819	292	508	ARPGDQATSGGQGTTFQHPLFC FELGGSQNPALQ*PFAAACPVG AD*TKFTFAFCRLK*KRTCCL SLGSR
8762	39130	C	8820	253	369	
8763	39131	A	8821	295	393	IYFGCLLGEPVVAEEAGI\WDN DCVKKQLLHSW
8764	39132	B	8822	91	479	

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8765	39133	A	8823	1	544	ARHPDMKKRVEDASILPCNVSL EYEKTEVNSGFFSKSAEEREKL VKAERKFIEDRVKKIHELKRKV CGDSKGFVVINQKIDPFSLD ALSKEGIVALRRAKRRNMERLT LACGGVALNSFDDLSPDCLGH AGLVYEYTSAPCPKQSGLCILSS TLGEEKFTFIEKCNNPRSVTLII KGPKNHTLTQIKDAVRDGLRA VKNAIDGCVVPGCWCRGKW AMAEALI*P*APVLKGRAQLGS PKHLLDAFAHYFPKVLCFRNSG FLTQGNIKLKFKAEHSRIQVQL VGVDLNTGEPIMVASRSKAVW GHT* LW *KKTSLPSTPCTW*IA\ TNILLGLNEIMRAGMSFS*KGF VVINQKIDPFSLDALSKEGIVA LRRAKRRNMERLTACGGVAL NSFDDLSPDCLGHAGLVYEYTS PACPKQSGLCILSSTLGEEKFTFI EKCNNPRSCHIIDQRTK
8766	39134	C	8824	636	1025	
8767	39135	A	8825	33	1505	KCISASVKVDFSDLLSNNTS*S AFTPTRTQKSSSKLLRKESHYS GMMSIQEKSKENSSKVTKKSD DKNSETEIQDSQKNLAKKSGPK ETIKSQAKSSSESKINQPELETR MSTRSSKAASNDKATKSINKNT VTVRGYSQESTKKKLSQKKLV HENPKANEQLNRRSQRLQQLT EVSRRSLRSREIQGQVQAVKQS LPPTKKEQCSSTQSKSNKTSQK HVKRKVLEVKSDSKED/GKSSN **SNKFS/SKGKNAR*NIR/SACA CSSQCTQGSEKCPQKTTRRDET KPVPTSEVKRSMATSVVPK KNEMKKS VHTQVNT/KHNTPK KSTAIAS*TK***AGASRKEQTR *YSPA'REEIIAGEIESDNVEVKK ESSQMESVKEEKPEIKLEETSV ERQILHQKGTNQDVQCNRFFPS RKT KPVK CILNGINSSAKKNSN WTKIKLSKFNSVQHNLDSQVS PKLGLFTNQFFTTFRNASSSDS KYIFRDKAT
8768	39136	A	8826	1	394	AISRALGRYVLPCLIQDGIFVA HTAHAILTSLED\SL*MFQPKTC WCL\AN*HDTLSVNMETPHPSF QEELSGLLLLKMLRSPIEASKD KDKVKSNAVRALGNLLHFLQP SHIE*PTFAQINEEAIQALIS

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8769	39137	A	8827	52	730	KSACDALSSILPEAFRNLPNDR QMLCITVLLGLNDSKNRLVKA ATSRVALGVYVLPCLRQDVIFV ADAANAMVMSLEDKSLNVRA KAAWSLGNLTDTLIVNMETPD PSFQGRVLWSPAENGYDQAL EASKDKDKVKRHAVRALGNL LHFLQPSHI/GKTPHLQKFI*GSL SRALNLLF*QKLAMKVRWNA CYAMGNVFKNPALPLGTAPWT SQAYNALTSVVT
8770	39138	B	8828	47	1576	
8771	39139	A	8829	2	2753	
8772	39140	A	8830	1	273	
8773	39141	B	8831	104	206	
8774	39142	A	8832	1	987	
8775	39143	A	8833	111	2187	DERRVGAADMFGRSRSWVGG GHGKTSRNIHSLDHLKYLYHVL TKNTTVTEQNRNLLVETIRSITE ILIWGDQNDSSVDFDFLEKNMF VFFLNILRQKSGRYVCVQLLQT LNILFENISHETSLYYLLSNYYV NSIIVHKFDFSDEEIMAYYISFL KTLCLKNNHTVHFFYNEHTN DFALYTEAIKFFNHPESMVRIA VRTITLNVYKVDNQAMLHYIR DKTAVPYFSNLVWFIGSHVIEL DDCVQTDDEHRNRGKLSDLVA EHLDDLHYLNDILINCEFLNDV LTDHLLNRLFLPLYVYSLENQD KVFLIIHHAPLVNSLAEVILNGD LSEMYAKTEQDIQRSSVLPTLSS LWQGSLSLNLQSLGHLKCSS HLCGAQAAADSVTGEIPAIRSL EWLISAGSKARTFFFLKMLIGF WEKVDCEYQRRQVLSTRLQEA LPSNRLTDVAAVHSSCMLGFGS TAPRGSWIGDPAAVHLPLPGEL AEHLGSKGTTTGTKHQPQAKPS IRCFIKPTETLERSLEMNKHKGK RRVQKRPNYKNVGEEDEEKG PTEDAQEDAEEKAGTEGGSKGI KTSGESEEIEMVIMERSKLSELA ASTSVQEQNTTDEEKSAATCS ESTQWSRPFLDMVYHALDSPD DDYHALFVLCLLYAMSHNK/G KSPEKEEGLSGTQSHPGKAGTF GKEGAERKRAQV

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8776	39144	A	8834	1	3050	RNLLVETIRSITEILIWGDQND SVFDFFLEKNMFVFFLNILRQKS GRYVCVQLLQTLNLFENISHET SLYYLLSNNYVNSIIVHKFDFSD EEIMAYYISFLKTLSLKLNHT VHFFYNEHTNDFALYTEAIKFF NHPESMVRIAVRTITLNVYKVS LDNQAMLHYIRDKTAVPYFSN LVWFIGSHVIELDDCVQTDEEH RNRGKLSDLVAEHLDDLHLYLN DILIINCEFLNDVLTDDLNRFL LPLYVYSLEN
8777	39145	A	8835	111	270	
8778	39146	A	8836	240	406	
8779	39147	C	8837	86	286	
8780	39148	A	8839	172	243	DPS*EARSMLLLLFLPPDHSGLP H
8781	39149	A	8840	280	526	GRNAVVS*AHCRSQTGPK*S SL/LVFPSSWYRHMPPHLAN* KKFFLHRDGGDLMLPRLVWNS WPQVILPPQPPKALGLLL
8782	39150	A	8841	3	1785	VLDARNAGAGGLAGPAGVLRG RASRCDPGAAGAGQGGRVR PGRAAAPSPPGGA*CVPTDA GAGPGSAGARQPLPFAAGALS HSGHC*RGLRPGSLASPAQAK AAWSGLLLSPAAAGRDGGRGH NPRDPPPLREHGPFGHGR G*ELYQCHLGEGGAPDKPGS PCASGLDGHWRALLLETFRP QRCAQVLHVDYGRKELVSCSS LRYLLPEYFRMPVVTYPCALYG LWDGGRGWSRSQVGLKTLIL GKAVNAKIEFYCSFEHVYVSL YGEDGINLRVFGVQSCCLAD RVLQSQATEEEEPETSQSQSPAE EVDEEISLPALRSIRLKMNAFYD AQWKENGYYRAIVTKLDDKSV DVFLVDRGENSEVDWIINMLL RFLTNQEQGEETISKVIAQAGY AKYQEFETKENILVNAHSPGHV SNHFTTESNKIPFAKTGEQK AKRENKTTSVSKALSDTTVVTN GSTELVVQEKVKRASVYFPLM QNCLEIKPGSSSKGELEVGSTVE VRVSYVENPGYFWCQLTRNIQ GLKTLMSDIQYYCKNTAAPHQ RNTLACLAKRTVNRQWSRALIS

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8783	39151	A	8842	2090	2901	THLLVPGMQPLTWQMPFSPFLS ISPTRSNLPSAATPVIAQWA/HE QSGHGGRDGGYTWAQQHGLA FTNTDLATVNAKIGFAYPVCDA SAKTTIRGLLECLIRCDGIPHSIA SDQARIHRSRNQEVEVEVAPLT ITPSDPLAKFLLSVPVTLRSAGL EVLVPGEGLMPPGNTRTIPLNW KLRLPPGHFGLLLTLSQEAKNG VTVLAGVIDLDYQDEISLLHN GGKKEYARNTGDPLGRLLVLP CPVIKINGKLQPNPGGTTNGS DPSGMKV
8784	39152	A	8843	1	585	
8785	39153	A	8844	1	1697	MDKYFMIKTPKAMATNTTIDK WDLIKLKNFCTAKETMIRVNR QPIECKMFAIYPSDKVILLFKM APKRNAEGLSTVSTCKKAAMC LIEKGCELVGPVGPQTHPVVTS PVSECIIGIDILSGWQNPFIGSLT GRVKAIMVAKDKLPLELPLPG KIVNQKQHCIPGWIVEISATIKD LKDAVIGIPTLPPFNSPIWPVQK TNGSWRMTVDYHKLNQVVTPI AAAVPDVVSWEQINTSPGTCL HWWPHGEFPRLVDREERTRW FTDGSAYAGTTQKWTPAALQ PLSRTSLKESECFIHGIPHSIA SDQGTHFMAKKVRQWAHAHEI HWSYHVPHYPEAAGLIEKWNG ILKPQLQCQLGDNTLQGWDKV LQKALYA\LNQHSVYGTISPIAR IHRSRNNQEVEVEVTPLIITPD PLAKFLLPVPSTLHSLDLEVLVP EGGMLPPGHTAMIPLNWKLRL PPGHFGLLLPLSQQAKKGVIVL AGVIDLDYQNEISLLHNGGKE EYALNIGDPLGHLLVLPCPVIN VNGKLQQPNPGRITNGEDPSG MKVCVTPPGTTTTTKKP
8786	39154	C	8845	1	720	
8787	39155	A	8846	57	261	WNF/CDPGGPMMKL\FISFKLKT ISSTFLSPTCLVL*RRPSRSASSL TVLCTTTTRSSPLL GALV*TWP
8788	39156	B	8847	1	1158	
8789	39157	B	8848	1	2523	
8790	39158	A	8849	3	375	
8791	39159	A	8850	3	169	DFQPFTRVTVHWGKGNDQTFR GLLDTGSELTLPDGPKHYYGP PVKVGAYGAQLL
8792	39160	A	8851	3	376	

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8793	39161	B	8852	1	592	
8794	39162	A	8853	1	319	
8795	39163	A	8854	1	1071	
8796	39164	C	8855	1	862	
8797	39165	A	8856	1	1488	MGRARRLTPVIPALWETEADGS RALTVETTVTQLQHLNTVGIIG FRGGRGQVAAVNCQKRDIQPF TRVTVHWGKRNDQTFQALVDT GLELTLIPGDPKHHCDDPPVKVG AYGHQVINGVLAQIQITVGPVG PWTHPVVIFTVPKCIIDIDILRW QNSHTGSLTGRMKAIMVGRKAK WKPLELPLPRKTVNQKPYHTPV GTAEISATMKDLKDAGVVIPTT TLFNSPIWSVQKTGGSWRMTV DYCMLNQVVSAAVEAIVLDVVS LLEQINTS/P/WP*SGSCTAAFHH QMEVVHT*SGSSRS*RHNCNTN GLMGSL*SVDRGREYGLVH RRFTIC*HHPKLDSCSTTVPF* DIEGQL*REIFPPVSWRQGW LCMGSAWTFTHQG*PGYGHC *VPNLPAETNTEPSIWHHSSG* SASYLVAG*LYGTSSIMERA CPHWNRHLF*IWVCLSLCTLCF C*DYHPWTLEMPYPPSPYSTKL CCCPRHLLYG*RSAAV
8798	39166	A	8857	1	1056	MSSVLLRLIYQLTQKTASFEGG PEQKALQQIQAAVQAALPLGPY DPANPMVLEVSVAADRDTVWSL WQVPIGESQQRSLGFWSKVLPY SADNYFPFERQLLACYWALLET DRLTVGHQVTLQPELPIMNWV LSDPSSHKVGHVHQHSIHKWK WYIRDQTRAGPEGTTTPVITQ/ WDAHEQSGLSGRDG\KGQRFV LTGVDTYSGYWFAYPAHNASA KTSIYGFTCLIHCIPHISIAD QGTLFTAKEVWQWAHAHGIH WSYHIPHHPIAAGLIEWWNGLL KSQLQCQLGDNTLQGWGKDL QKAMYSNLNQLIYSTVSPISRIH GSRNQRVEVEVAPLTITLSDPL AKFFLLP
8799	39167	B	8858	603	1785	

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8800	39168	A	8859	3	467	RIHVRPEITLTA/ANTARPY*IDP HDTLLSHSNFGSSDCPSSSKMR QALELVRERAPELMIDGEMHG DAALVEAIRNDRMPDSSLKGS NILVMPNMEAARISYNLLRVSS SEGVTVGPVLMGVAKPVHVL PIASVRRIVNMVALAVVEAQTQ PL
8801	39169	A	8860	1	1878	
8802	39170	A	8861	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRRLTHA GSGLVGENV
8803	39171	A	8862	2	393	LEFGKKLGNAADYFIANKIDQ PKIAVINCEAFEVCVQRRKGFE EVLKSRVPGAQIVANQEGTVLD KAISVGEKLIISTPDLNAIMGES GGATLGAVKAVRNQNRPEKL LFSVRI*QPKLLRSWKTRC
8804	39172	A	8863	414	805	TPSRVEGNQEYPSLVYIP\SQAP\ WNM*TRDHKHGLNLYVQRVFI MTDAEQFMPNYLRFVGGGLIDSS DLPLNVSREILQDSTVTRNLRN ALTKRVLQMLEKLAKDDAEKY QTFWHQFGRGIIIFTDSQFNR
8805	39173	A	8864	3	684	MPNYLRFVRGLIDSSDLPLNVS REILQDSTVTRYLRNALTKRVL QLLEKLAKDDAEKYQTFWQQF GLVLKEGPAEDFANQEAIKLL RFASTHTDSSAQTVSLEDYVSR MKEGQEKIYYITADSYAAAKSS PHLELLRKKGIEVLLLSDRIDE WMMNYLTEFDGPPFQSVSKVD ESLENLADEVDESAKDAEKALT PFIDRVKALLGERVKDVRRLTHA GSGLVGENV

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8806	39174	A	8865	1	624	AKLLRFASHTDSSAQTVSLED YVSRMKEGQEKIYYITADSYAA AKS\SPHLELLRKKGIEVLLLS RIDEWMMNYLTFDGKPFQPG AKVDESLEKLADDEVDESAKEA EKALTPFIDRVKALLGERVKDV RLTHRLTDTPAIVSTDAD*MTP RMA\KCFGGAGQKVPEVKYIFE LNPDHVLVKRAADTEEEAKF CVWGKNCVLGPF
8807	39175	A	8866	471	659	
8808	39176	A	8867	638	834	SSNTMMHFQIHMKQESTEQQT MTARR*Q*SEVDE*REDTTLAA RGRTEA*SARYQLT*QSVPSPH
8809	39177	B	8868	1	1383	
8810	39178	A	8869	4452	4896	SQHSEVFVCHMLSQPRAPGAG RYL/LQRKA/SEALEVEV/VDTW QADAVRDTRTLS\GGESFLVSL ALALALSDLVSHKTRIDSLFLD EGFGTLDSETLDTALDALDALN ASGKTIGVISHVEAMKERIPVQI KVKKINGLGYSKLESTFAVK
8811	39179	A	8870	31	185	GHRRRPFKRGRKSR*RGGSQRR VNEDARRSAWMRKKQRRLLISK ISDRTARK
8812	39180	A	8871	1744	2670	

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8813	39181	A	8872	1	1680	MGFWVENGEIQYPVSEITIAVSS LVFSSASFAADLEDNMETLNDN LKVV EKADNAAQVKDALTKM RAAALDAQKATPPKLEDKSPDS PEMKDFRHGFDILVGQIDDALK LANEDVFTRTL GADALYQFQNI RHVLRMQRIAAGEGNTLAFDT SVIQIVNDLVFHC FGKWL TGIY PPCAFVIATGAFMNTPGDKQGA TSAGAVDDVD RISNEITIGIPML TGYILLHVKGVR AKSSADHRR RPLASLATPPHKS WTCTLLFFR LPNVVCYANRIQQLTPILETL PQ SDELP HCEETVVLENWRQVHE QCLALHSQQQTLQQQDV LAAQ SLQKAQAQFD TALQASVFDDQ QAFLAALMDEQTLTQLEQLKQ NLENQRRQAQTLVTQTAETLA QHQQHRPDDGLALT V TVEIQI QELAQTHQKLRENTTSQGEIRQ QLKQDADNRQQQQLMQQIAQ MTQQVEDWGYLNSLIGSKEGD KFRKFAQGLTLDNLVHLANQQ LTRLHG RYLLQRKASEALEVD VVDTWQADAVRD/RTL SSGGE/ SFLRLR*VTRRHQLWLHPLRH
8814	39182	A	8873	3	823	
8815	39183	A	8874	287	426	YSGLSAVNPVNDAYGVR FQLP SVNRIPVS***VKLAPPAHQIKRI SGKCRFIPLC*YAPPGFSSASTM RATGILSTASQPPGKLPCMEEST AERRVGLPPLAKW
8816	39184	C	8875	1	2058	
8817	39185	A	8876	1	1989	
8818	39186	B	8877	1	3132	
8819	39187	A	8878	194	789	LTKLPSLFTFTRLSSSDNDLRGG DKRGGANGARLAL*PQTRTGD VTRRQPIRVCTVIEMFELLE/PIA DGFRNYRARLDVST/TESLLIDK AQQLTLTAP/EMTALVGGMRV LGANFD/GSKNGVFTDRVGVLS N/DFVNLDMRYEWKATD/ES KELFEGRDRETGEVK/FTASRA DLVFGSNSVL FVRILGGFFCEYS LTIRILH
8820	39188	A	8879	1120	1395	

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8821	39189	A	8880	1	629	THRPPKSGPPCAKITRTTHVTA KPLFPQTNPKQTVRRMQGELY LVDESGQEFVSALNYRRRKTR NNATAYPIRLFYLSVRPRAGSK SSRTIWILLAD/AKITPYERRQL VARIEA/LSTEIPAQVRPLYQLW RDGQALQLQLAEERQR/YTGG ADTKQDGATTTKDKQQR*TKG TRSQPSTREVQQQSTQKHSTSR PPNHSAQPSNSALVTRQ
8822	39190	A	8881	3	307	
8823	39191	C	8882	161	337	
8824	39192	C	8883	34	168	
8825	39193	C	8884	172	456	
8826	39194	A	8885	174	516	VSGVRCWIHSSAFPPVFPGFLLP VAFFDRPPARLYRMHTWSHME SQEPARLP SHYAD*GQGSQKR\ DSCSSGWAGLLFISPFVLWSA EIEGSLNHITLGFRLSHGTTSAD GMTF
8827	39195	A	8886	1	2964	
8828	39196	A	8887	1	2724	
8829	39197	A	8888	3708	7098	
8830	39198	A	8889	115	339	
8831	39199	A	8890	445	634	VINTFSLHTMGSTS*HQGNNGWR HLTLHPRNSKHPLQPTPGVLQ LRPPTASLRQLLSNAGCSG
8832	39200	A	8891	1663	2234	GEGLRRGLFPGAQAQGRAETA GCLRRGRGALALALPGSPGLSP WVEDAGGHRVLHGRAVLRC RAPPVPQAGLAKVEPYSGVSS LTAFPQAPILLSSGGQSRAGERT TM*G*PEMEKL*SCIGEGHQPC HR\KSRPAAPCPPPSAMFLTPR SSATLLSSSSKGASGGWEPSAA PLGGSGQPFREMVSQH
8833	39201	A	8892	202	542	
8834	39202	A	8893	564	1179	QHRLTYRTALWIHYRPDPKPL MSFRPGHQRLSVTSLLVCHGLL MVGTSGLVLVALPVRLSSPSL PPVELL*HSVCVSVCRGISCL*W RLWDQISDW\SRTLIQPPRPSC CPVVASPGPGKGPQCNGDPKW KSCEAASVKGTSPATGKSRPAA PCPPPSAMFLTPRYSATLLSSS SKAASGAREPSAAPLGGSGQPF REMVSQH
8835	39203	C	8894	321	539	

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8836	39204	A	8895	630	983	NLETNGKIPFENPWSKVPIRFR QNLRRVCLTTGGQIPTGRWVT ATDSRGAGDYRLCLHHLR*PD GARLSAGSADCAANRRDVGGS GRGLPGRLSVQQPRRVRRGQP DVQPVSWPGC
8837	39205	A	8896	31	144	
8838	39206	A	8897	1	1775	MEISFTRVALLAAALFFVGCDQ KPQPAKTHATEVTVLEGKTMG TFWRASIPGIDAKRSAELKEKIQ TQLDADDQLLSTYKKDSALMR FNDSQSLSPWPVSEAMADIVTT SLRIGAKTDGAMDITVGPLVNL WGFGPEQQPVQIPSQEQIDAMK AKTGLQHLTVINQSHQQYLQK DLPDLYVDLSTVGEGYAADHL ARLMEQEGISRYLVSVGGALNS RGMNGEGLPWRVAIQKPTDKE NAVQAVVDINGHGISTSG\SSRG D*DGYGQGLSRVIDPQTGRSIE HNLVSVTVIAPTALEADAWDT GLMVLGPEKAKTCSPGGLRGT ESLNTLRDRITQINGIDEVRMD DSWFARLAALTGLVGRVSAMI GVLMAA VFLVIGNSVRLSIFA RRDSINVQKLIGATDGFILRPFL YGGALLGFSGALLSLILSEILVL RLSSA VA EVAQVFGTKFDINGL SFDECLLLLLSSMVTFWCRNLF TSLLELWINHADKQDDNSCLSS ASVYLKAKMMKVMLPMQLLS SGTGFYRDRENSGGRYESRRS LTRQFREEPTAPIPRECSQRIDFL LFETPSVSASSAGFWLRFGSTA
8839	39207	A	8898	10	300	PTSIPRESSSGTWQVASTTVLF SAILAGLSASAFCLGPGIPQAR PNNSAVNSKNSRFGIPRPAE*P EQGGVYHHTAGVLKKLIPPSAR QHPDRC
8840	39208	A	8899	1657	2061	QMPGNPAPFSALLVAFKHQFAI AGGIFIKEVTFAIKTSQLLWFGQ PIFNNETTHQTACFLSVEADDL KFAVLLIEEHRDLNLGIQFLRLH RFKILI*RQINHIIALCCERLVQ LVGDDISPEFDELELRFSEVH
8841	39209	B	8900	26	1540	
8842	39210	A	8901	1	3396	
8843	39211	A	8902	1	3522	

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8844	39212	A	8903	1	105	SPQPDRHYRHHRRQGGLVCIVIIIF YFCAKRWMAAIL*TQHRHRFL TTDDGKFAVANGSFS*RGLHH/ ATGLLRFPFPPIC*GPLVCIVIIIFY FCAKRWMAAIL
8845	39213	B	8904	1	960	
8846	39214	B	8905	1	2618	
8847	39215	B	8906	1	490	
8848	39216	A	8907	2820	3332	ATEGYRQQCRQFHAAAYDESP HRNRRRKWRPTYRCHPAPDHR TACLRSAFYGNAPGCVQTGPV RRSGAASASSPAVFLSGTSPWS FARTIALVRGRS/LKIDTNSPWA YFSALLM/F/DLLSHVHEWCGR YISPPRFAQTGETLPCRRHQGSR YSAYLSASRYPARRKWYFSPR
8849	39217	A	8908	3	716	EVDDTAKHRRRDSFPQ*DP/LM NIRYAPSP/HLPATVALTGAVIIT VLYALAGKRLFCSWVCPLNPIT DLANWLRRRFDLNQSATIPRHI RYVLLVVILVGSALTGTLIWEW INPVSLMGRSLVMGFGSGALLI LALFLFDLLVVEHWGCGHICPV GALYGVLGSKGVITVAATDRQ KCNRCMDCFHVCPEPHVLRAP VLDEQSPVQVTSRDCMTCGRC VDVCSDEVFPITRWSSGAKS
8850	39218	A	8909	3	323	
8851	39219	B	8910	94	2205	
8852	39220	A	8911	504	694	FNQLGRDWRTYYRKSDPPR/Q WLRHSPVR*VLKMVPMAIRGL LWMLSAQPAPAICSSRQTKMV
8853	39221	B	8912	1	2031	
8854	39222	A	8913	3	190	FIATPGYTGEAGYEIALPNEKA ADFWRALVEAGVNPCGLGARD TLRLDGDESYG/QEM/DETVSP* AMKLRCPMKKRPISGVRWWK RVLTHVAWARVTRCVWTGMN LMARDGETVSP
8855	39223	A	8914	1	621	MWPSVSHLTQMNIPSRFSEPSG AIEVPPDKVHELRLRLAQQLP KGGAVGFELLDQEKFGISQFSE QVNYQRALEGELSRTIETIGPV KGARVHLAMPKPSLFVREQKS PSASVTNLLPGRALDEGQISAI VHLVSSAVAGLPPGNVTLVDQ GGHLLTQSNTSGRDLNDAQLK YASDVEGRIQRRJEAISPVG G\TAQLDFAS
8856	39224	A	8915	1	2274	
8857	39225	A	8916	957	1067	

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8858	39226	A	8917	1	1242	MDGLNTDKGSSVFHTPTDRLVI CCPVDADERMTTPPRLWDHEP SKPLFFTNYPVSAPFVGL/PPGK RPQGGFRAGNL*TSSKTIGRDL NDAQLKYASDVEIGRIHRRIEAF LSPIVGSGNIPAQVRAQLDFASK DQPEEQYRPNGDESHAALRSR QLNESEQSGSGYPGGVPGALSN QPAPANNAPISTPPANQNNRQQ QASTPSNSGPRSTQRNETSNEY VDRTIRHTKMNVGDVQRKLGII GQGKNEKPLKQLERVEEKPNG EGWEKKWQGKEVWKKEDGTI YLQKNKLRAPTDSTLWFAKNG RVAKIAKALVEPANFNPGVD EDDTEKLLLEVPEELTNEKLDL EQKCIHIYDDKRKQTKQTPQDV FLKRVTSPPQEPQPGSGGPIPEG IVIIGEDSSVQVLAPEDLPVEKL
8859	39227	A	8918	256	1510	RRFVGFRGTGVTKEAIGKRGV DQFFRQSQYRLVGTVAGMPE LTRLFVQRFTQFRMRMAQRVH RNATREVDILFPLLIPQARTFAT YRYKGCERSVNRYHPFIKVFRN WREADLSLKRV*TLNDTGYQ EVITYSFVDPKVQQMIHPGVEA LLLSPISVEMSAMRLSLWTGL LATVVYNQNRQQNRVRFESGL RFVPDTQAPLGIRQDLMLAGVI CGNRYEEHWNLAKETVDFYDL KGDLESVLDLTGKLNEVEFRAE ANPALHPGQSAAIYLKGERIGF VGVVHPELERKLDLNGRTLVE LEWNKLADRVPQAREISRFP NRRDIAVVVAENVPAADILSEC KKVGVNQVVGIVNLFDMYRGK GVAEGYKSLAISLILQ\DTSR TL EEEEIA\ATVAKCVEALKERSQ
8860	39228	B	8919	47	156	
8861	39229	B	8920	139	993	
8862	39230	A	8921	1	284	MRRKRLIRPTVQAQVCRPDKTR KRRIRQWC/YGCRMRRKRLIRPI KYANRQAETA*GLDALHLSCSS HG*KGPT*SSGHGFRGCKPQAL EASMWC
8863	39231	A	8922	1	813	
8864	39232	A	8923	1	1176	

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8865	39233	A	8924	3	618	AGGPPLNPIEMA*KS\WDEIIVK LEKDPQLKTQFLEVYPQGFSGE NITDAIAEFEKTLPDSPFDKW LRGDENALTAQQKKG YQLFKD NKCATCHGGIILGGRSFEPLGL KKDFNFGEITAADIGRMNVTKE ERDKLRQKVPGLRNVALTAPY FHRGDVPTLDGAVELMLRYQV GKELPQEDVDDIVAFHLHSLNGV YTPYMRDKQ
8866	39234	A	8925	2	212	QYPGLDLHGAKGLGDGLAGKR YRQLLVSC\RHVLYRHPAGPGT RK*RRSGIRWLHRLCGNEPRCK LLVDQ
8867	39235	A	8926	1	640	
8868	39236	A	8927	1	704	MSSFQFEQIGVIRSPYKEKFAVP RQPGLVKSANGELHLIAPYNQA DAVRGLEAFSHLWILFVFHQT MEGGWRPTVRPPRLCGNARM GVFATRSTFRPNPIGMSLVELK EUVCHKDSVILKLGSLLVDGT PVVDIKPYLPFAESLPDASASYA QSAPAAEMAVSFTAEEVEKQLL TLEKRYPQLTLFIREVLAQDPRP AYRKGEETGKTYAVWLHDFN VRWR/VSP*ACSTFQLEP
8869	39237	A	8928	3	313	AQRGGI*RGSLATAGLRSGGL HPIRTSQQFCL\PVRGKPPTQAS VMVDAPHSTKLKHLRSISDCCT GSKNFKPVDLSLLGSMGVGSTE LDHLAPWLQAPFPGE
8870	39238	A	8929	13	453	
8871	39239	A	8930	380	966	LRHAVLLTEGF/SYKPHAFALG FVEAPRGEDVHWSMLGDNQKL FRWRCRAATYANWPVLRMYL RGNTVSDAPLIIGSLDPCYSCTD RVTLVDVRKRQSKTVPYKEIER YGIDRNRSPNRSLYPREVPSTT LQPLRTPRCPGKNLALAVNVST GTNGQKPESCGPGRCRMMKKGE YKRTISGGRTIIRVHIARLLRTF

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8872	39240	A	8931	1415	2085	SQVPICQRSTSCRVKRLFSWKM AYRSALVTPWRVFRRNPVPR TSPVVFTGGDVFSRVMVRVKE T/FDSLAMLEFALDNMPDTPLL TEGFSYKPHAFALGFVEAPRGE DVHWSMLGDNQKLFRWRCRA ATYANWPVLRVMLRGNTVSD APLIIGSLDPCYSCTDRVTLMP QCIACGACACACPANALTIQTD DQQNSRTWQLYLGRCIYCPSS NNNGPVISFN
8873	39241	A	8932	1	1127	MKKRKTVKKRYVTALVIVIAG LMTLWRIRNAPVPTYQTLIVRP GDLQHSVLAPGKLARTSKNFA QFIRVRYSASFSLAGEKKKR**P RVHGVQNASSGRYRGTCRLG SDSRKKLVEILALATPNMEQRT QGIGILDPQIARDLRFDPYAEY DNIPK\TLFTFTAADVFSRVMVR VKETFDSLAMLEFALDNMPDT PLLTEGFSYKPHAFALGFVEAP RGEDVHWSMLGDNQKLFRWR CRAATYANWPVLRVMLRGNT VSDAPLIIGSLDPCYSCTDRVTL VDVRKRQSKTVPYKEIERYGID RNRSPNRRCTGEGWTRA WITL PLLIKPLTPLMIASFANFN NFV LIQLLTNGGPDRLGTTTPAGYT

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8874	39242	A	8933	1	2466	MLRGVNVLADAVKVTLGPKG RNVVLDKSFGAPTITKDGVSVA REIELEDKFENMGAQMVKEVA SKANDAAGDGTTTATVLAQAII TEGLKAVAAGMNPMDLKRAS RSRKGYPARIRQELNQGISR EATEKAMRECDIDWCALARDQ ATRKYGEP LPTVFSEKSRKLI GVKRAFTHQAVNAGFCTQPAV SVIAGDFDRHGFNTRHFTFRLF DDFSFETTRFCPAQIHTLKHARP VLCFRTARPLNIEVAVGAVIF AREHTAELKLRQFFQGAPQKA VISIPVVPQVTGVVIEVTDKKNT LIKKGEVLFRLDPTRYQARVDR LMADIVTAEHKQALGAELDE MAANTQQAKATRDKFAKEYQ RYARGSQAKVNPFSERDIDVAR QNYLAQEASVKSSAAEQKQIQS QLDSLVLGEHSQIASLKAQLAE AKYNLEQTIVRAPSDGYVTQVL IRPGTYAASLPLRPVMVFIRSET SLRTHCPGHADYVKNMITGAA QMDGAILVVAATDGMPQTRE HILLGRQVGVPYIIVFLNKCDM VDDEELLELVEMEVRELLSQY DFPGDDTPIVRGSALKALEGDA EWEAKILEL/RWLPGLYSGTR ACD*QAVPAADRRR/SSPSPVV VPLL PVV*NAVSSKL VKKLK\R WYPRDSEVYLYWR*NVPPTAG RRPCW*ERRCSAAWYQT*RNR

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8875	39243	A	8934	1475	2904	FWRAAAPIPCWRSRGAVKKQH VEVTQLDWTTPGRQYAGPIPCS RRGYCPLPRSGSVRWADL/FPP A/LD/LAGHPG/AKVANLVPKTT FIDGVDQTSFFLGTNGQSNRKA EHYFLNGKLA AVRMEDEFKYHV LIQQPYAYTQSGYQGGFTGT MQTAGSSVFNL YTD PQESDSIG VRHIPMGVPLQTEMHAPGLPLA SSMKRWIRATGFIFGKEQFED VVPVLGSKVNGVQFNAELVAD SLGISQIRCRCAIFLTVVFFPVLH KQAFDLISLLLQQPGRNGGIDT AGHADDYFFCGFRHWITHDIEL QGGARQKDAADHYLAGDIESL PLATATFDLAWSNLA VQWCGN LSTALRELYRVVRPKGVVAFTT LVQGSLPELHQA WQAVDERPH ANRFLPPDEIEQSLNGVHYQHH IQPITLWFD DALSAMRSLKGIG ATHLHEGRDPRIL TRSQLRLQ LAWPQQQGRYPLTYHLFLGVI
8876	39244	A	8935	1	920	MARADTVSVPMFMGLAAKPC WRDTEPNTGYRGPHVRNIQLT HDPRLDYRSI/LIDINDIGQTFHE RLHPDACLSNAILVHNKKGGP LADGIVITPSHNPPEDGGIKYNP PNGGPADTNVTKVVEDRANAL LADGLKGVKRISLDESDGIRSK NDVIDTSDDDM**QCLSRRSN GHPGAKVANLVPKTTFIDGVD QTSFFLGTNGQSNRKA EHYFLN GKLAAVRMEDEFKYHVLIQQPY AYTQSGYQGGFTGTVMQTAGS SVFNLYTD PQESDSIGVRHIPM GVPLQTEMHAYMEILKKYPPR
8877	39245	A	8936	471	668	
8878	39246	A	8937	1	1233	
8879	39247	C	8938	1	1548	
8880	39248	A	8939	1	1260	
8881	39249	A	8940	1	1468	
8882	39250	A	8941	261	596	RSESCCGHEPDGPETRQP*PQR LWTCAYSPGTESERYFPRSDRK SDA*M*HRLVRTGARS GDAKI WRTFANCLFRKIKKTYRRSQTG FYAPGGERRFLYAASRKRNR F

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8883	39251	A	8942	2	1356	CLPGLKLVRLLYRLEERNARRT SAAVDAT* RAGAWLAQCGLTV EQLAR\QVD\PDMTTRAHLYHC DHRGLPLALISEDGNTAWSAEY DEWGNQLNEENPHHVYQPYRL PGQQHDEESGLYYNRHRYYP LQGRYITQDPMGLKGGWNLYQ YPLNPLQQIDPMGLLQTWDDA RSGALTWYGWGDRLTTIQND RSRIQTIYQPGSFTPLIRVETATG ELAKTQRRSLADALQQSGGED GGSVVFPPVLVQMLDRLESEIL ADRKRAATTWSHNHYANKKE GIKATGYRLAQTGLGFKCEESSV FRVTRKSHSSFVWLDKAVTPHP TSNVRAGCLMRRWRVLSGLHR CEVLHPHTPHPAYHAGCGVSL QRNIRHFFLNGLRFQLRFRTIC CLRLVVVQPQHFAGVLQLAFC CRYITVQLASIRRNDRFQRSPLPL RAGNTIAKYFFQIQHNRRGG
8884	39252	B	8943	1	1159	
8885	39253	A	8944	1	1304	MAETQQQFKKRMAASGLETRF DEVGNLYGRLNGTEYPQEVVL SGSHIDTVVNGGNLDGQFGAL AAWLAIWDLKTQYGAPLRTVE VVAMAEEEGSRFPYVFWGSKN IFGLANPDDVRNICDAKGNS/IC RCDEGLRIYSSERPTNS/VVRIL KPLLNCILNRA/DVLERITAWD KPDCH\TLHHHADLSGHFPEEIG PLLFAGFSSAWQNGPSAFSWQK HGSAQTSSIAVLHRTPRHAGCL AQCDFTRAFFQIMLKNYLRKK RWKKKIHFNPASGKSS/RAIPEG YVTTYGDVAKLGGIAPGRAPG GR/VQRQALLAEGAGTAEDGFT *VGEVEDAARDGP*TDAERTG* TYADAGRQDPQSAEDRQRANL HGNADR***RFASGGFHRGYHP RAAAGFCDHRKPACGNARRAG WPDRA*SKSSAYAFRYRYEHLR HAGRSG

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8886	39254	A	8945	1	1695	MRSDPDTSVNEIETKLSALLGS ETTGEILFDLLCANGPEWNRV TLEMKYGRIMLDATAIIDEQDV PTHILSKLTFTLRNHPEGVVMK NFEVLQPLQNSLSGLPLWVSR ILQQINQLTHYEPVIGIMGKTGA GKSSLCNALFAGEVSPVSDVAA CTRDPLRFRLQIGEHFMTIVDLP GVGESGVRDTEYAALYREQLP RLDLILWLIKADDRALATDEHF YRQVIGEA YRHKMLFVISQSDK AEPTSGGNILSTEQKQNISRKIC LLHELFQPVHPVCAVSVRLHPV VALLQQFRDTERTHRYHYDS QHRLVDYTRTQYEEPLVESRYL YDPLGRRVAKRVWRRERDLTG WMSLSRKPQVTWYGWDGDR TTIQNDRSRIQTIYQPGSFTPLIR VETATGELAKTQRRSLADALQ QSGGEDGGSVVFPPVLVQMLD RLESEILADRVSEESRRWLASC GLTVEQM QNQM DPTEGTTAW Y/AEYDEWGNLLNEENPHQLQ QLIRLPGQQYDEESGLY YNRHR YYDPLQGRYITQDPIGLKGGW NFYQYPLNPISDIDPLGLSMWE
8887	39255	A	8946	605	1395	SMSLLKNIRLSSASKQCAACSG WPAAAGIRGVSGGQG*ARVSSS ANTATALSSRLLPGQNSVTVP A*RMNCVLRVTPLASKNRGGKP APSGTEGKGLPEVQPGQLRAH GLPVSENLEQDFYASGPNQK WAGDITYLRTDEGWLYLAVVI DLWSRAVIGWSMSPRMTAQLA AGCPKPLWGTPSFPGPACGLAP SSAGVLPRGFVPAVWLDSEDPE EYVGSSDFLTQMMSMKKVDLK KNRAATDADGQFSPRCCMPEK YAGSHN
8888	39256	A	8947	1	1914	
8889	39257	A	8948	1	4767	
8890	39258	B	8949	1	2294	

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8891	39259	A	8950	115	3551	NPALTRIVPAQQNLYTNTLLAA RIKQRLTEQFELMLRQAQIDFA GKAHSLTEAQANTTQVSAERD RLFKNYQRYLKGSQA AVNPFS ERDIDDARQNFLAQDALAQIQS QLDSL VNGEQSQIVSLKAQLAE AKYNLEQTIVRAPSNGYVTQVL IRPGTYAASLPLRPVMVFIPDQK RQIVAQFRQNSLLRLAPGDDAE VVFNALPGKVFSGKLAAISPAV PGGAYQSTGTLTNTAPGSDG VIATIELDEHTDLS
8892	39260	A	8951	845	1213	DKGEIGGWAAQTHRGSHEQGA RRVPEDRDARARRKNEEPAAR PRTTNRNGSRKGPERR/WADG RGHKA EAGRRKRRKRQ*KEEM RKIRQQESGGEKKRGLCGRPPG GGNNCMEGRERRGRKR
8893	39261	A	8952	843	1061	NRPPVCACHRQVVLPPVNR APA EKWQVPRVTLPGRQSTSW FAAVVYRN*YQYCALTAQRGR RSPRQLPHR
8894	39262	A	8953	1	682	MIRIPGCEDKLGADQPAFVLY LEIDPHQVDVNVHPAKHEVRF HQSRLVHDFIYQGVLSVLQQQL ETPLPLDDEPQPAPRSIPENRVA AGRNHFAEPAAREPVAPRYTPA PASGSRPAAPWPNAQPGYQKQ QGEVYRQLLQTPAPMQKLKAP EPQEPALAANSQSFGRLTIVH SDCALLERDGNISLLSLPITGIW CSD*H**PMIPRLIPASVRSSM VESAK
8895	39263	A	8954	1	1887	
8896	39264	A	8955	189	552	LFRGEKGARNEVLATRYRQT VSGDFRHLHCLADQYALGGAY QF*AGLY*LHQA WEMNRGLQL LSDALGEQYAQHGNWRFLRNN DRFVFQILRSFEHDNSEDKPGP GMPPHG WRTQFWGG

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8897	39265	A	8956	263	3549	TGGPSSPSSHWKTPVVIYWDGT ALRCVFVPLGETGAQRKRISA RKGSLLTSCPQGALSEHCPTTP APLPSQRRNHW MENISPFERSVG VSASRCSES*MRPWNSRMPRLG RSQGDSSSAL/MSTGVAFRGRF LKGGLPQAPAVAAATPWLCTQ GVAGETTPAVNVKYNVRVRVS EYISMHVHREVTARNVYVTQT RRPMTTFPTLAWETPHYHRRY GVSLSSAWVQVGPPRYCRQT NALSNLPNFNKSGADTQ
8898	39266	A	8957	1	1799	MMRDRLINHVAIRPACE*QLGA DQQPAFVLYLEIDPHQVDNV HPAKHEVRFHQSRLVHDFIYQG VLSVLQQQLETPPLDDEPQPA PRSIPENRVAAGRNFHAEPAAAR EPVAPRYTPAPASGSRPAAPWP NAQPGYQKQQGEVYRQLLQTP APMQKLKAPEPQEPALAANSQ SFGRVLTIVHSDCALLERDGNIS LLSLPVAERWLRQAQLTPGEAP VCAQPLLIPLRLKVSAAEKSALE KAQSALAE LGMVNSTRFSLHE HPDAERSPGQSGEQRQPPAVD DYAIVDEYGRHYRRAVAGTLL HVSVDSGTTQTVFMYTWLSMA LIIALPAFIFARVPNDTHQNVAIS RRKTESRNEVLATRYHRQTVS GDFRHLHCLADQYALGAPIPPD GTRRPILVNGAEVGAVIASPVE RLTRNTDINFDKQQRQTSWLIV ALATLLAALATFLLARGLLAPV KRLVDGTHKLAAGDFTTRVTP TSEDELGKLAQDFNQRASTLEK NQTPITSRGHPRIFLARHPAPAP TTLTSLALKIIRSPAFLPDTASEC AMAIDCYILAASQAYKAASSL SLSVVLATSARFKTSSTSIWVKS SSTNSCE
8899	39267	A	8958	1348	2190	
8900	39268	B	8959	1	105	
8901	39269	A	8960	1	781	
8902	39270	B	8961	1	1716	
8903	39271	A	8962	754	807	
8904	39272	A	8963	821	875	FFSLFFFISLASGLSIL*W*FVFL WDRW*YPLYHFLHLFDSSLFS SLLVLLVYQFC

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8905	39273	A	8964	1	315	SGSVMPPALFFWLRLDLAMQAL FWFHMNFKVVFSNSVKVIGS LMGTALNL*ITLGSMIAFTILILP YP*AWNVLFPVCVLFYFLEQW FVVLLEEVLHIPCKLDS
8906	39274	A	8965	42	403	GLCSVPLVYISVLVAVPKLFW* L*PCSIV*SQVA/SIPPALFFWLRI DLAMWALFWFHANFKEVFSNS VEKVIGSLMGMALNL*MTLGN MAVFTILILPTHEHGMFFHLFVS SFISLSSGL
8907	39275	B	8966	179	1225	
8908	39276	A	8967	342	407	
8909	39277	B	8968	143	3122	
8910	39278	A	8969	692	1360	MCGIIEGSLFHCISITLFWYQS HAVLVTVAL*YFLKSGGLMPP ALFFWLRLDLGMLALLWFHMN LKVVFSNSLNKVIGSLMVMAL NL*ITLGSMIAFTILILPIHEHGM FFHSFVSSFISLSSGL*FSLKRTF TSLVSWIPGYFIFVVAIVNGSSL MIWLSVCLLLVYKNACDFCTLI LYPETLLKLLICIRRFWAETMGF SRDTIMSSANRDNLTSFPN
8911	39279	A	8970	2116	2418	FFSLFFFISLASGLSIL*W*FVFL WDQW*YPLYHLLHLFDSSLFS SLLVLLVY/PILLIFSKIKNKKP APGFIDFFEGFFVSLSPSVLL*S* LFLAFC*LLNVFALASLVLLIVM LGCQF*IFPAFSCGHLVL*ISLYT
8912	39280	A	8971	1	558	LYKNSVKYFHN*PVGNIMSNIP VGALFSGPAFGIGILAAGVILAI MIIPYIAAVMRDVFEQTPVMM KESAYGIGCTTWEVIWRIVLPF TKNGVIGGIMLGLGRALGETM AVTFIIGNTYQLDSASLYMPGN SITSALANEFAEASGLHVAAL MELGLILFVITFIVLAASKFMIM RLAKNEGAR
8913	39281	A	8972	1879	3735	
8914	39282	A	8973	16	452	VGQLFWKGYPLAGFPDPCAQS WKVAHVLLRLGLHIKSVSANG KEVTSKFHRKENLARGLHSRPR RGQVRVGGAQHCEPR*TPPPA CRVRLPGCPVDPA SPGRGRRTS AGTPEPALRHPHTPRGPVAART LPAEPGPAPSGLPP

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8915	39283	A	8974	158	531	CSLRRGPPDP/PGAYCKRRATG AASTRSLSGAVAGSPAHRCESR PLQAMGA\GGLPHPEGGRGGSG GRKRTDGPVCGCGERAPREYP DPSRSWRGPQRKPAPSQHPCLP RLSRGPGRHPEGPHQVR
8916	39284	B	8975	22	387	
8917	39285	A	8976	241	389	VASQAPGVRALQVGAHSC*G RGHVSWPPPWPWGPPCCPLCL LNGLPNI
8918	39286	A	8977	1620	1936	TLFFFESESHSVTQDRVQWYDL \NSLQPPPPGLK*FSCLSLPSSWD YRRPPPCPANFFFLVELEFHHV GQDGLELLTSGDPPALASQSAR ITGMSHCAQQNKHIL
8919	39287	A	8978	3	105	
8920	39288	A	8979	1	1821	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVWGPSEGS LDRSLVSKVWHKVTKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPTSDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGQMPLREQRYTGI DEDGHMAERRVFVCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTIIQTHNPTWADCHQLLMFLF NTDERRRVLQAATKWLGHEAP ADYQNPQEYGKEESPAQFYER LCEAYHMYTPFDPDPSPENQRM NMAVLSQSAEDIRRLQKQAG FAGMNTSQLLEIANQVFNVD AVSHTGAEHSVVTGPVAPLSK KTIDIIGAMGVSAKQAFCLPRT CTPGTKDYRLVQDLRLVNQAT VTLHPTVPNPYILLGLLPAEDS WFTCLDLKDAFFSIRLAPERQK LFAFQWEDPESGVTTQYTW LPQGFKNSTIFGEALARDLQK FPTRDLGCVLLQYVDDLLLGHP TAVGCAKRTDALLRHLEDCGY KVSKKK\AQICQQQVRYLGFTI RRGVRLGSEKQVICNLPEPKT
8921	39289	B	8980	209	2272	
8922	39290	B	8981	1	228	
8923	39291	C	8982	375	472	
8924	39292	C	8983	266	408	
8925	39293	A	8984	1	1105	

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8926	39294	A	8985	108	708	LTNQKKSRTRRIHSRILPEVQGG AAADRHCPIDRLGSLQDHHRRS RLLSQWSP*KSTHD*HGFS\YQS AEDIRRKLLQQAEFAGMNTSEL LQIANQAFVNRDAVSRKENHR DNERQAQRNTDLLAAAIRGVPP KRQKGKGGPGKETQPGCQSLQR NQCA YCKEIGHWKNKCPQLKR KPGDSEQEAPDKDEGALLNLA EGLLD
8927	39295	A	8986	125	444	DCLAVKRASWVQPTGYSCPL L/QGVLT YQRRQAAPPLRRER LASSSRDKPKCAGKHTSSLVRA GDMQGTIVTGTEVLRDMEPK FEDDQLRPVLEHKVPRREMA
8928	39296	C	8987	80	325	
8929	39297	A	8988	566	1857	
8930	39298	A	8989	1	1037	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRGQESLEKLL GRYFYISPLSALAKTVRQRDFA DFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWWVLGLTDFKN EAKELRLYKQEKREKAKRWKE TEKGFNGDYGVMTPTGKWRT YFEIDWSKLEVGWPSEGNLERS LVSKVWHKVTGKSGHSDQFPY IATWLQLVLDPPQWLRGQAAA VLVAKGQIPRKDPTPPAEGNQ LLK/SLFDPTSEDPLQEME/PSDP SGALPLPGKDAPHS*AHSPCAS TRQ TYP*ATRSRQERR*SLERNP YIGSSFKTQNWDTNAPERAVV
8931	39299	B	8990	1	2082	
8932	39300	A	8991	6	367	ENLNIKAPHAVVTLMTTTGPD WISNAILTKDFCLLCENTHISRW GCNTLNATTLVVSESPVKHNC LEVLDVYSSRPNLRDHP*TSV DWELYVDGSGFANPCKVTLKK ETSPAPVTPRS

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8933	39301	A	8992	1	2991	MLKNFKKGFNGDYGVMTMPG KLRTLCEIDWPTLEVGPWSEGS LDRSLVSKVWHKVTGKSGHSD QFPYIDTWLPQWVRGQAAAVL VAKGQIVKEGSRSTHRGKSTPE VLFDPSTDDPLQEMAKVIPVVP SPYQGERLPTFESTVLVPPQDK HIPRPPRVDKRGGEASGETPPL AARLRPKTGIQMSLREQRYTGI DEDGHMAERRVFCQPFTSAD LLNWKNNTPSCTEKPQALIDLL QTIIQTHNPTWADCHQLL
8934	39302	A	8993	1	444	SSASTPETRAKFT*DNLCCASW QRLASANFRVLVDCILSDTFED LRLQCDVNLAFGRRCEELED ARYKLHHHLHKAVE*GGGAEH VPHRLREKLLEAEQSLRNLEDI HMSLEKDIAAMTNSLFIDRQKC MAHRTRYPTILQLAGYQ
8935	39303	A	8994	1	1576	MVQTDVLLPEPAPQTVSPCELP CKEYDVARNMGPGHRQLEVW FQNCYARYHQAFADCNQSERE LQGRESQQLAAETQALAQPTQ QDSTCRVGERLQDTHSWKSEL QHEVEVLAETDLLLAQKQRL ERALDAMEVPFSIATDNMQCS QRHQHANLVRDYVETELLKAY PPAPSQCLKNCCSSRKPSACNK GACEVMETLTVQEEANPGTEG CRTRALAHKEEAEPINIQELLK RAIVQAVSQIQLNREHTEICEM DWLDKVEAYNLDETCGRHHSQ STERP/WTKFTQDNL CRAQRKR LSSANLWVLVDCILRDTSEDL GLQCDVNLAFGRRCEELEDA RHKLQHHLHKMLREITDQEHN VVALKEAIKDKKEPLHIAQTRL YLP SHRPNMQLCREAAQFRAA FPG*ESFQWRLPRTSLPAPNWE FWVPFHPSRCILLPSPAPAHTPP TPPSW*VRWRSLYKSITALREK LLQAEQSLRNLDIHMSLEKDV TAMTNSVFIDRQKCMARHTCY PTILQLAGYQ
8936	39304	C	8995	99	442	

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8937	39305	A	8996	177	622	TESSASEKTTGEDGTRVFSLL RSLLSLLPSAPLRHHPPSA*LSL CSCVSD*AVALIPQSAHHFPNIS *PFPLHCFHAHAKPPVWIFHSH/S LWLP*AFLAPMTSFTDQVAVD DFLSIVYLFTFTPFLAFCGEPST ALATREQVWVESAS
8938	39306	A	8997	1	329	AAARPGRGSETGDWVLLCYPG WSAVV*S*LTTA/SELLGSRG*G SLLSLPSSWDYRLSAPCLANSK KPSEK*GLSMLP*LVSNSWPQVI LLLGPPKALGLQAPGTMGLRP
8939	39307	A	8998	1	814	
8940	39308	A	8999	57	274	TASSSLTLVYGHRLCWLGPSHP *PSLWLP
8941	39309	A	9000	1	1236	
8942	39310	A	9001	1	1095	
8943	39311	A	9002	1	2313	
8944	39312	A	9003	166	494	FSQQLCGENHPLRTEQTAQR AGVPLGVRLSRPGFP*LSTHSC FSCPLV*PPSQGPGLSLWTLC SAIQAPAELESCRSSCDRDGRSH WPRVSGGLWLSQVPRPRR
8945	39313	A	9004	3	974	MGESPAV*GYFVLAMNSAGL SFGGGAGKYLAEMVMHGYPS NVWELDLKRFGALQSSRTFLR HRVMEVMPLMYDLKVPRWAF KTVSQLRTSLLYDRLDAQEAR WMEKHGFERPKYFVPPDKDLA ALEQSKTFYKPDWFDIVIESEV KCKK\EA\VCVIDMSSFTKFEITS TGD\QALEVLQYLF\SNLDVVPV GHIV\HTGMLNEGGSYENDCSI ARLNKRSFFMISPTDQQVHCW AWLKKH\MPKDSNLLLEDVTW KYTGTVRALYGDVEHESWLS CVRHAHHPDPICIAHTYLHLRS FSQADGREWRKVLDKHKIFLF ARSLC
8946	39314	A	9005	1	1872	
8947	39315	A	9006	1	2250	
8948	39316	A	9007	1	1257	
8949	39317	A	9008	1	1596	
8950	39318	A	9009	1	1584	
8951	39319	A	9010	1	1461	

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8952	39320	A	9011	110	993	TSTELSTPSQQNIHSSQHIALV PKLTT*LERIKYLGQLTRDVKD LFKQNYKPLL/NKIKEDTNKWK NIPCSWTGRINIVKMAILPKVIY RSSAIPKLPMTVFTELEKSTLK FIWNQKRAHIAKTILSQKNKTG GIMLLDFKLYYKATVTKTAWY WYQNRDIDQWNRTEPSEIIPHC NHLIFDKPDKNRKWGKDSL FN KWCRENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRSKTIKTIE ENLGNTIQDIVMGKDFMAKTP KTMATEAKIDK WDLIKLRASA QQKKLPSE
8953	39321	A	9012	1	1185	
8954	39322	A	9013	1	185	
8955	39323	A	9014	2	1321	
8956	39324	A	9015	2	1757	
8957	39325	A	9016	1	1008	
8958	39326	A	9017	1	1311	
8959	39327	A	9018	1	1152	
8960	39328	A	9019	1	526	MPSLTTPIQHSVGSSGRAIRQEK EIKGIQLGREEVKLSLFADDMIV YLENPIISAQNLLKLISNFSKVS RKIN VQKSQAFLYTNNRQTESQ IMSELPFTIAKRIKYLGIQLTRD VKDLFKENYKPLL/NKIKEDTNK WKNIPCSWVGRINIVKMATLPK MTWIANWLRNSLQAQ
8961	39329	B	9020	1	1626	
8962	39330	A	9021	1	2361	
8963	39331	A	9022	1	1140	
8964	39332	A	9023	1	2112	
8965	39333	B	9024	1	1065	
8966	39334	A	9025	1	1416	

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8967	39335	A	9026	1	1690	MPMVEELYGNYGIMADTTERV GQHKDAYQVILDGVKGGTKEK RLAAQFILKFFKHFTELADSAIN AHLQTVSGRQQLVKLVAEQAD LEQTFNPSDPECVGRLLQCTQQ AVPFFSKTVHSTRSVTYFCEQV LPNLGILTAVEGLDIQLEVLKL LVEMSSFCGDMKLETNLGKL FDKLL EYMPLPPEEAENGGNA GDEEPLQFSYVECLLYSFHQL GQKLPDFLTAKLNAEKLKDFKI RLQYFARGLQVYIRQLHLALQ VKQCFAQYMEKENGIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIISIDAEKAFDKIQQPF MLKTLNKL GIDGTYFKIIRAIYD KPTANIILNGQKLEAFPLKTGTR QGCPLSPLLFNIVLEVLAIRAIQ EKEIKGIQLGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMGKLPFTIA/S/KRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNI PCSWVGRINIV KMAILPKNWKKLL
8968	39336	A	9027	1	1575	
8969	39337	A	9028	1	2682	
8970	39338	B	9029	1	2088	
8971	39339	A	9030	1	2406	
8972	39340	A	9031	1049	1500	
8973	39341	A	9032	1	4341	
8974	39342	A	9033	103	366	NHPQLKVAGLKNGCCVCMCV CVC\CVCVRVWIWVCVCVCVC VCVCVC\CVCVCVCVCICVCI*V WVCVCVCLCLSLPKCWDYRHE PQRPA
8975	39343	A	9034	232	735	YLSGNGGEKGFCALPDHRLR VLHQHPHACVETDTVDLGITS ISLADVRVCVCMVCVCVCVCV RVWIWVCVCVCVCVCVCVC\C VCVC\CVCICVCI*VWVCVCVC\ CVCVCVCIC\CVCVCVCVCVC\ CICVCI*VCVCVYVCVCVCLCT VLGIHSFLTARNAHQPIGH
8976	39344	A	9035	163	795	

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8977	39345	A	9036	34	758	RVPHRHGMKRVVRQRHGMKRV PHRHEMKRVPHRHGMKRVPHR HGRKRVPHRHGRKRVPHRHGR KRVPAQVQDEEGHCQKPGRCV CMCVCVC\CVCVRVWVWVCVC VCVCVCVCVC\CVCVC\CVCIC VCI*VWVCVCVC\CVCVCVCIC\ CVCVCVCVCVC\CICVCI*VCVC VYVCVCVCLCLFYLVLCFICS/ CIISGGQRWC*RTMCSLPFAH SHHSFPGHFFLIFQSRSFQVSFHP
8978	39346	B	9037	34	156	
8979	39347	A	9038	3	419	GGENVKAINQQTGAFVEISRQL/ PPN/GDPNFKLFIRG\SPE\QIDH AKQLIEEKIEVGWGGWGLWGFL TARIPAHLPWLLSFLLG\PLCTV G\PGPGGPGPAGPMGPFNPGPF NQGPPGAPPQ*VSSASWVLRP/E GLLSWQEE*QTPFPFP*KCRAG ALIAHFHFCGYHQALSCL/PGR ACAFQHPSVHVQVSRLLSCPQA DAARPSSCFLSRPFGAPLSLVV WVSGASPLKNIPTGGPAA\PPP HHCSSIPFFSPA VPGGPLLTSTH PRAGAIPTPSGS/QPAPHDPK* WALQPGATRGSPVSVILCLLGF EAGGLLSWQEE
8980	39348	A	9039	1	445	ATADPNAAWADDY\SHYYQQP PG\PVPCPAPAPAAPPAQGEPPQ PPPTGQSDYTEWAWEEYYKKI GQQPQQPGAPPQQDYTKAWEL EYYKKQAQVA\TGGG\PGAPP SQPDYS\AAWAEYYRQQAAYY GQTPGP\GGPQPPPTQQ\GQQQA

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8981	39349	A	9040	38	1297	TCVSALSVLASDDGTGPEKIAHI MGPPDRCEHAARIINDLLQSLR VGGPGC*RGWQGLQGSARPDR LPGFIILLLLLSCRVPVQGGPAGG PGMPPGGRRPKEEGQGN\WGSP WAGKMTFSIPTHKCGLVIGRGG ENVKAINQ\QRGA\FVEICRQLPP NGTANFKLFII\RGSP\QQIDHA KQLNE\EKMKGPLCPVGP GPGG PGPAGPMGPFNPG\PFNQGP PG APPHAKK\PPPHQYPPQGCNGT YPQWQQHAPHDPSISAGKAAA AAADPNAAW/AAYYSHYYQQP PGPVP/GPAPAPAAPPAQGGQP Q/QPGAPPQQDYTKAWE EY/YK KQAQV/ATG/GGPGAPPGSQPD YS/AAWAEYYRQQAAYYGQ/T PGPGGPQPPPTQQGQQQQWVA PETPSRGVPLMPAAGAVWPE VPGVPTHRQGSIRVWQR
8982	39350	A	9041	1	1777	MPVLPVTATEIRQYLRGHGIPF QDGHSLRALSPFAESSQLKGQ TGVTTSFSLFIDKTTGHFLCMTS LAEGSWEDFQASVEGRGDGAR EGFLLSKAPEFEDSEEVRIWN RAIPLWELPDQEEVQLADTMFG LTKVTDDTLKRFSVRYLRPARS LVFPWFSPGGSGLRGLKLEAK CQGDGVSYEETTIPRPSAYHNL FGLPLISRRDAEVVLT SRELDL ALNQSTGLPTLTLPRGTTCLPPA LLPYLEQFRRIVFWLGDDLRSW EAAKLFARKLNPKRCFLVRPGD QQPRPLEALNGGFNLSRILRTA LPAWHKSIVSFRQLREEVLGEL SNVEQAAGLRWSRFPDLNRILK GHRKGELTVFTGPTGSGKTTFIS EYALDLC SQGVNTLWGSFEISN VRLARVMLTQFAEGRLEDQLD KYDHWADRFEDLPLYFMTFHG QQNIRTVIGTM\NHAVYVYDIC HVIIDNLQFMMGHEQLSTDRIA AQDYIIGVFRKFATDNNCHVTL VIHPRKEDDDKELQTASIFGSA KGGEWSAPHSTSSRPSAQPKSD STVAEAAPLASDFTAYWIWFLT WGRGRASRDREFGYLAALN

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8983	39351	A	9042	3	679	SPLIVSSARMHAGRDLPYFMT FHGQQSIRTVIDTMQHA\VYG\Y DICHVIIDNLQFMMGHEQLSTD RIAAQDYIIGVFRKFATDNNCH VTLVIHPRKEDDDKELQTASIF GLSQRQARIEADNVLDPA GTGK LGNRGQGKRYFAGVPKEPF*W EM*GVFPLEFNKNSLTFSIPPKN KARLKKIKDDTGPVAKKPSSGK KGATTQNSEICSGQAPTDPDQPD TSKRSK
8984	39352	A	9043	90	317	GTLRKRYRAFHCRTIFKALTEV CKNFSALHCEFSWGFFFFCSFFF LASS*G*NCLPSQPQPCWFLQPP CPWQIL
8985	39353	A	9044	2	2136	PRLSSVLSEFITTHIYFLLSETTY NYEWNLISLYVVDPSRLAC*TV QLFFMLQLSVGLYVFNVGNDIC LHKMGSVTVLFFVTARRVNLPP VAVIKLMSSSSCISFLSLFLNLV ESTDDTEIVSYHWEEINGPFIEE KTYLCFFTFLLFCVFIFVFAIT*G VQTPYLHLSAMQEGDYTFQLT GLQT*CKEILFHTVSVIPENNR PVAVAGPDKELIFPVESATCLS YSKPHAPSLMLTTSMFYRGPSA VEMENIDKAIATVTGLQVGTY HFRFYSITGVLNQSLCFHFAIFD LENNSPPRARAGGRHVLVLPN NSITLDGSRSKPRNWDPRIDSC PVIRVLSQDVIDGSDHSVALQL TNLVEGVYTFHFLML*SLCKCP SANPVSSSPDPRKSGLVELTLQ VGVGQLTEQRKDTLVRQLAVG VSW*SPSDHVAVLSHCLLHSTV IVFYVQSRPPFKVLKAAEVARN LHIS*SRDSLFCMLPSALHTS/S AGCLLKCSGHGHCDPLTKRCI* K*SWSTNSL*LCPLWFSCVSEW SIFYVTVLKS*LSVTFLKI*VELF IVPFRQKRTKIRKKTNLNMY*VH LKYFTH*ILILPIAVRGMCDNDYP HD*QLEVNHGVPQMLLCFSLG IKHRSTEHNSSLMVSESVRSFD RDCLQSLNYLLSGLLQKEKNLQ KAGLTSPAPSLWEDKCSGRTEH AQSARLPLKEDTEKTLMQF
8986	39354	A	9045	47	157	FDKICIFKRQVTKSEVILNLN* VL*YLEYHIRNIN
8987	39355	A	9046	1	393	
8988	39356	C	9047	274	357	

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8989	39357	A	9048	727	1089	
8990	39358	A	9049	175	608	CGWEYGN*ADTMDEQYCKVC QAYKAPRSHHCTKNTCVMK MDHHCPWINNCCGYQNHASFT LILLAPLGCIHA AFIVMTMYT QLYSFGMENNFFRKQNFYLSS WDWKEEGLKDPDFSIIQLGWK SFVFFHMDMGEVDGEGTF
8991	39359	B	9050	780	1166	
8992	39360	A	9051	3	681	HIRGPRYSGHHSAFGCPYSDMN LKKEATLHDLRLREQTQANLES DSSHKS KSLCSLNFNGKHEKV NSQPRLVQQA CKLKIGKEDID LDNLFREYSVEQAQQVLHQS SMSTVSAHPFRDLPLGREQHCK LLPGVADIRASQVARWTVDEV AEFVQSLLGCEEHAKCFKKEQI DGKAFLLLTQT DIVKVMKIKLG PALKIYNSILMFRHSQELPEEDI ASGQEV RG
8993	39361	A	9052	30	981	TQDPWPSPVLWSRASSDPAAG HRAEHIT YWPWKLEGTDIWL VLYMPLVQPDNFIKKHSHLPTY CLFKEDVKFPFRTCRLTYCWLN YTEEITYLHTKKVSVGQSAVRE EFAAACTWSIRIGEKLAILLSLY LCRQQALLNMRMSVPIHESGV AQRSPVMDKLAQYSVEQAQQV LHQSVMSTVSAHPFRDLPLGR EQHCKLLPGVADIRARQVARW TVDENLHGLIQTKQTPHLDESIS KGESPALVVT ELMCM TATEP LVPTKNPYQERGHIGDSFLHYT DQEPQPWDQSSVHPTAPIYSV SSGFRVTRGSDI
8994	39362	A	9053	1	864	MVSALPEVGRAQILRLIAYIRSP APPVVGVERAARRPAQAFGLV ALPSTDATVFANQPLARACIGA ARHREPDAPGQSAWVGEECLK DALRSPETPKLGSLSPPCQDTRP GRASNDFSLEMGYSSLSAARLK IHGQVFQCCGPGPLRTLHW TQ S*TYLNILALET*GAQNQP*EW QAVD*GAPGLFSHTLGVFPR/RL PQH PKQIICFQNYEYSVEQAQQ VLHQSVMSTVSAHPFRDLPLG REQHCKLLPGVADIRASQVAR WTVDEPYSSAPRGPELSAGANS SRGA

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8995	39363	A	9054	1	1737	MKEKPAVEVRLDKWLWAARF YKTRALAREMIEGGKVHYNGQ RSKPSKIVELNATLTLRQGNDE RTVIVKAITEQRRPASEAALLYE ETAESVEKREKMALAQMIMPQ HDQLHRYLFENFAVRGELVTV SETLQQILENHDYPQPVKNVLA ELLVATSLLTATLKFDDITVQ LQGDGPMNLAVINEINERAQNP LLCAFRVCNTYGSYECKCPVG YVLREDRRMCKAVFPYCQNES SDVLWQFDSTSQIFLKGTPKTT VRRGGEHNLKNPDECEDNPNIC DGGQCAGIPGRNRCLCYDGF ASEDMKTCVDIDECSLPNICVF GTCHNLPGLFRCECEIGYELDR SGGNCTEDPDHSKSRSGRSQND WGRRRKT/S*KRSAVYR*RQLY IRRQPYAERPSLR*RQRP*IPCIR SQHG NRKRMRRRRIFI/STKRTT AAARTSSVKKARSFSRALKNA MLS*RTAPSVS*S*IMITH*KK** SR*SLQTR*LMKSSARVFSK*TA NGTWSL/HSRGSKVTIDGINSND IYMLGYVSNSLTGPYRPVDTKG LGLEMGLDPNDVTLTYSHFRVP EAEAAMWVSHAT

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8996	39364	A	9055	1	1743	MTTSTMTHMMTMHFPIIVCAD SRDDVDVTNDVNDHDDSAKR KSHRERPIAAKRTETK/KRRRRA RPKR/RTKARS*SAK*QTAQHT RTTAAIIMRDTQARRV*RPTKH AAEQRQNTTGKQRR*TKRVKA AKKEGE*RRRKMARRTTPQTR R*TRAKRRINRPRHGAKKRA*N /RRLKSAPKRHRVNRRDENART TTRHKKRRNRVVKRAERSGAE RTPYKQRHQQTREKRTCKRRQ TK/RTKAK*T*RDHENDGTRA YNKTPKKA AKRTRNNLRJHNA TKGGDNRGQTRRA*TKPRKYR PDENRYNTSSPERTPRKRRGKS E/RRDKTAQRAQ*ADRYNSRKT QURL*KGHTHTER*RQARMHT RHAQNLDQHSTRLCNA*ST/C HDRRSSSTMCHRYDQLYSRSH ALTMIIVNKPLRQCIRMLSFHD RHRSLAIDGDSASTGSPAFCV NTYGSYECKCPVGYVLREDRR MCKDCTEKAFFPAGGCEVDKT HTVPQERAYIHRTRLGRARTKK RDLYRRAHNDRRRQKSAAYYE STSVRAHKYNSGKSDTQNGS HHRQKLRYGDAGKSHYLQY NIHFMYPLFNT
8997	39365	A	9056	3	451	FFEMKSHSVAQAGVQCSGVILA HCNLHLLLESSDSPASAFRVAGII DARPHAWLIFVFLVETGFHHVG QAGLELLS*VIHPPWPPKVLRL QHETPCPAVSLYLNQSPENNLE EDSLAMSNRRRSKGPPIWQNP GFEILALSTFLVESDLK
8998	39366	A	9057	53	343	
8999	39367	A	9058	14	234	CLFIRIFNVICYSKTCKNSIC\IGV IEIVIDGCMCGGEDGGGGGGSV TAGGAPSPIETGSHGPPQPAVYF WRF

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9000	39368	A	9059	3	865	INFSVCVLARFFLGVVVLCVSC CWFRVCACVCALAFPCSCC VVVLCVPVGCRICTLFAV/CCCL/ CVCALFCGFLRLFLCLCV/CPC S/CSARCRC/VCLALGAVVCFPP CSVVASCGCCDWVWLCCGAV VALVGLLCCVLVCAWSFRCG/C V/CLC/VCVVVVLVVRCC/VCW CGSCVVDCAGVVLVCCLLVVL MMSL/CGCRVYSWYGVCWVCS VVCRRIDL/CPCLCW/CVT*RG CWSVWCM/CTCCG/CVCGLA VICWCRCVVRLVCLCAV*FIC ACVCFECAVGGFVGGCFLGSL
9001	39369	A	9060	1606	1849	QGVASLCREAGLTKISPGAPL WLPCSPGVTAECSGERTVRHN VTDRVCGVLGAVTSPGRN*RG HVTHKFCILCTDTRDC
9002	39370	A	9061	2	682	ALEAVFGKYGQIVEVHLMKDC ETNKSRGFAFITFERPADAKDA ARDMNGKSLDGKAIKVEQATK PSFESGRRGPPPPRSRGPPRVL RGGRRGSGGTREPPSRGGHMD D/SGRDSYRGPPRESLPSCR/D APPTRG/PPPSYGGSSRYDDYSS SRDGYGSRDSYSSSRSDLYSS GRDQVGRQERGLPPSMERGY PPRDSYSSSRGTPRGGGRGGS RSDRGGGRSRY
9003	39371	A	9062	90	443	NVVIQFIVLPYLTIDPAGNSR SAPPTRGPPPSYGGSSRYDDYSS SRDGYG*SRDSYSSSRSDLYSS DRIVSTLFFVSLNWDGPKFCLF LVSASASPSIRSASSRASTSWCS AA
9004	39372	B	9063	12	1373	
9005	39373	A	9064	2	206	

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9006	39374	A	9065	2	1423	IHFREMASKSWLNFLTFLCGSAI GFLLCSQLFSILLGEKVDTPQNV LHNDPHARHSDDNGQNHLEGQ MNFNADSSQHKDENTDIAEKL EEKVRILCWVMTGPQ\NLEKKA KHVKATWAQRCNKVLFMSSEE NKDFPAVGLKTKEGRDQLYWK TIKAFQYVHEHYL*DADWFLK ADDDTYVILDNLRWLLSKYDP EPIYFGRRFKPYVKQGYMSGG AGYVLSKEALKRFVDAFKTDK CTHSSSIEDLALGRCEIMNVE AGDSRDTIGKGNFFHFPV\PEH HFNLKGYLPRTFWYWNYYYP PVEGGELRFLFSTVTIRHSKALS LGVAQCSWLLKQQVISDDKTK RPDFPDRSRIMKERVQIVLYES GQAPVESSPPLPGYCSALFATCF QVTKGNFSDPTQAILYTQADK IEGWMRASGERVAEQSGQTA MDGGKKEAEWKTRKAKYRD DVCSKHHPYPPTPVPPSLED
9007	39375	A	9066	1	311	
9008	39376	A	9067	1	493	ITRQHMRKAVPFQVPRKEILKL LKGKVVVGHALHNDQALK*S TLGARPGDTTYVPNFLSEPLH TRARVSLKDLALQLLHKKIQVG QHGHSSVEDATTAMELYRLVE VQWEQQEARS\WTCPEDREPD SSTDMEQYMEDQYWPDDLAH GSRGGAREAQDRRN
9009	39377	A	9068	45	365	NQAAASRPHCAARTMAGEEQA ACVHEDRTQCRGDKAAPQAAH LCGPGRGSGSVSTAPRAR*CPV CSSCPGPGAPEDTPEEVDVGAA SAHRSPRLCCSHLTHRWPKH

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9010	39378	A	9069	3	1687	ICVPKSVPSFLWAGRGPHCLLP CGSSSP*SGGLARA*GVFQGRA GVARAPSHLSFHNSPCVWSLST CCRAGSQDGPCPHAAGQGPGK QTSSGTGASSSPWTSCL*KSLPK \VCS*GLETTIGRGRVKPIKVT TAQ*CAASVTAPLLSS*LQDGG STAKVTRCT/TAGGRAVYGTA GKAFPEAPELTCRS/ALAALGT WPLPPLQVSCGLRNPSDLPSV VGSRASV*TKSGSSPAKVWPLA EWFKSGSA\PTVGQEA WLLWA SDSSSELSLCPRKHAAPPHSAEH RQISQGLASSCWGAGGDKVVS ASMVGSA PGQCPMSALMTGSA SGQCPGHPCWSGTNADS*GRDP HRASRLLALPTASYEQ*PQPHW GSWTAHGQNLGIFQRVSWF V*GQTMVSRPRISGLGQPVCLS AASPQAAPLGSHDPTAGR*GL EPGGRQPSSS*IYVWEAPPGLW VPPGPFLSH*SWRFGRTKAAPL KEPRPGGRCPGDRPSRAEAGL PQTRKPALPAIGR/PKKACSLRR PRVILEQSSQHAAAALSSWMQP ALLETGGKAVFFTPGGL

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9011	39379	A	9070	66	1956	PLLAIPAHSTFPARKPEEPPRPD* LCPHIHCAAV*GEIRTVP/SKTV RGVATRTRPRSASSLGTITGLR VSSVRRVQLSIKPGCSRVENESS NSPCSSSQPGT\SVLPCPTVCRE AGP/AGP*PPG*ALSLPAAGFTT ATEWKQSQLSSGG*THSGEDM GRATAAATEKAQEQCMLREKL GTRQKAESGSRGAVAGLQHFCS APRTAWQPRASRA/RAGVRAW PCADPM*PPSHSPFPKPFIPAA/ PGAQTLGAAGVEHVAGSARIPC CRTGLE/PHPHSPRRTLERQARI SGAGRRSSPNAATGARPRPAAG SPVSARRAPRRRPA*SSPCSGPW TAVSAPRSPGPRGGGRPPSPGR RRPCCSVFSGGASPSSARVSSPS GSCSASPPAAPAGASGAVVA GPVVGSPREHGG*LRPPLPRLG VPGLLAARTSGAEVIHEQAAAQ GTAADTPGAPGLLLAPAAAGA V/TRPGPPGASGCPRPAPRPPTP ASRSGRPVPGGGRGRRGGRGA GGEALQGAVVGGQVGGSGAL A/ATARGSPAAGVSRWTAPRCR HRRSDASASGTPARFPGAGRKG RTLWQ*SWRSAPPPGLSELL*G LPRPLPESGRSKAPLPSGSTPLPS GRTPLPSGRSPSTRRSPS
9012	39380	A	9071	95	1423	GLENKRAKGTEAHTRACP*GK STEQDTTWTNTGRNEQQGPRP KGEQTQRKTERKPGRERQVQV LSSPPGRWC*DVGPLGGLPSRA KAEAAALTAQKAQGRRGSPGS LPKSSPLPSAPGKR/TPPRGHLL VPLPSPIYPALLSQHPPQGPPCG ASAPPSALLQRAPPGTRTL\QR PPGPRVTCGTT/MAAKAKSQS NAPRGSLKKSNSFYNIPLKQV SCLITISKHSRNEVSUYQTSRPR AAATDVPRT\PSLSVGCSWSCT RGHWPSSCCPTAPRGQGL*EHS QGPGSRSKLPWPTGPGGLTPS CWSLAGSAGERVDLNQAAASR PHCAARTMAGKTLGGCGCVD VGAASAHRSPRLRCTTSPTDGP NTERGSRKTGWTPGPPGFWPCP RPPTSNTTTPGLMDSARPGKA PAPFTDFRTPSGLLLPGWAVRA RREEDGCG

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9013	39381	A	9072	42	380	LGAPCTPPRSAPRTGRPEYA*A RG*PVGDLCRGPEAVVSTQVLL PRGLQ*NFAVLLQLMSCATPPP NCALKGCV*VPLEQSPFFHQAV ACREWKRKGKGMVCGGNASPO RTEA
9014	39382	B	9073	116	341	
9015	39383	B	9074	52	190	
9016	39384	B	9075	70	310	
9017	39385	A	9076	1349	2456	HCSVPGAEWPRKPPAQICPQLT SRPHLSSPRSLSPGCGHSPGPG* SPQPPVMSLHEGPPRGPQV/PSP VANPQPKPWLLRSVDLPVPSWH LPTVDRTTSL/APSLQSDV/PAPS GAL*PSGRACSGV/PPID*APEA ALSAAAPRPSLGSGQNASGLPA ASLPPQDSSQPHKTVSPARSVP PLGAQARAAPPRLWCPHALVS G*EASPEAVSVAAGPPVPGPTPS TSGSTASHRRGC*SPR*TPAPP RRDHGRSAAFEVLAAAASAQP CASQGGPRPTGAGRTPSPLGLP FSRGPPAASARPFGRHPSL*FSW *SSPSGLSLSDTPHSRRPLGPV CGLRAPCPPQIPACRVPAHNSQ RWPGSSSRSCRCQCC
9018	39386	A	9077	462	739	ACEPMVLFCLLALLQLDLFLGS YPRVLAAFDIQVFFLGTSRDM* NTG\LEYFMLNSWLWLLNRL*S WGELCHFIPLHSPVKRGLNFYL QEFFI
9019	39387	A	9078	1	678	GTRVNMILMKMGFSGIVVHQE SVCATYGSGLSSTCIVDVGQK TSVCCVEDGVSHRNTRLCLAY GGSDVSRFCFYWLMQRAGFPYR ECQLTNKMDWLLQLHL/KRNF LSFRSRTSLGFRMTSFRFRHPDS PALLYQFRLGDEKLQAPMALF YPATFWICWTGK*RPLHTDLRA ILKILTMNITCWPBKAHENSLQ KLLLTESLHPNLLDLKGIFVASP LIFQKDSIPR

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9020	39388	A	9079	227	1980	GERLRYGV TENGKEKGGEKEK EQRGVKRPIVPALVPESLQEQIQ SNFIIVIHPGSTTLRIGRATDTLP ASIPHVIARRHKQQGQPLYKDR WLLREGLNKPESNEQRLNGLIM VDQAIWSNKMSNGTRRNPVSP EQARSYNKQMRPAILDHCSGN KWTNTSHHPEYLVGEEALYVN PLDCYNIHWPIRRGQLNIHPGP GGSLTAVLADIEVIWSHAIQKY LEIPLKDLKYRWILVIPDIYNK QHVKELVNMILMKMGFSGIVV HQUESVCATYGSGLSSTCIVDVG DQKTSVCCVEDGVSHRNTRIFS WRSGHLWVQDHEFQIRHPDSP ALLYQFRLEDEKLQAPMALFYP ATFGIVGQKMTTLQHR\LRAILR ILTMNITCWPHRANKNSLQKLL LTESLHPNLFEFERGF LWASPLI FQKDSIPRR*IWGLHREMA*WP ATIPRRPLTALMSRKTAISLFEG KALGLG*SPSSIAIDCCSSDDTK KKMYSSILVVG GGFDFVIKASR IFCSTEFSTKCPPSLQADYLKM WM*SQGLKDMDPRLIAWKGG AVLACLDTTQELWIYQREWQR FGVRMLRERAAFW
9021	39389	A	9080	1	756	MRRIVALVETGEQPFGAATVGS RFGCLEDLGTDQRRHDEMA AAHTYFIGDGDTLTEDEDEDT WGMAKGHHAINIEGFKLARVE DEM QFQEREPEKVKIRGRTRGY TFIMLAALAAAEADMQVGEE L\C*KVSLKASQLGQMALMLQS VTVQIGMVYGLPACGAQVNLQ DDKGSMLV/MCASKHGHMEIK LLLAQLGCNVHLQDNDGSTML SIALEVGHKGITVLLYAHISFAK AQSPGTPRLGMKPQSF
9022	39390	B	9081	5	5440	

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9023	39391	A	9082	1	4294	WAVFDGNYYYLPPWAHTKPV VTLSYWEDISHRLDAVNALLA MAERLQTNIEALKSGIQGKIPA NQLAELWLKLIDEVIEDTRYTL PLTEGKANVTVLDQTIRKLRSR SLSQIHEAAVRMRSEATDVKST LAEIEDWLDKLMQLTEEPQNS MPDIIIWMIRGEKRLAYARIPAH QVLYSTSGENASGKYCGKTQTI FLKYPQEKNNGPVVELRVNI WLGLSAVEKKFNSFAEGTFTVF AEMYENQALMFGKWG
9024	39392	B	9083	1	339	
9025	39393	A	9084	2	1767	KLYRGKSDENEDPSVVGEFKGS FRIYPLPDDPSVPAPPRQFREL DSVPQECTVRIYIVRGLELQPQ DNNGLCDPYIKITLGKKVIE\DR DHYIPNTLNPVFGRMYLESCYL PQEKDLKISVYDYDTFTRDEKV GETIIDLENRFLSRFGSHCGIPEE YCVSGVNTWRDSL\PTQALLQ NVARFKGFPQPILSEDGSRIRYG GRDYSLDEFANKILHQHLGAP EERLALHILRTQGLVPE\HVET RTLHSTFQPNISQGKT/LQMWG GMFFPKSLG\PPGPPF\NITPRKA KKYYLRVIIWNTKDVILDEKSIT GEEMSDIYVKG\WIPGNEENKQ KTDVHYRSLDGEGNFWRFVF PFDYLPAEQLCIVAKKEHFWSI DQTEFRIPPR\LIQIWDNDKFS\ LDDYLGFPRTLTCRHTIHFLOK SPGGNCRVWT*FPGPSKAMNPL KAKTASLFEQKSMKGWWPCY AEKDGARVMAGKVEMTLEILN EKEADERPAGKGRDEPNMNP LDLPNRPETSFLWFTNP\CKTM K\FIVWRRFKWVIGLLFLLILL LFVGRAPLTLLPNYFVQWKIVK PNVLTGKGFIISRVIIQQ
9026	39394	A	9085	2	407	

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9027	39395	A	9086	15	759	SARPSHDYSHYYGTIEYLCYKI LGDIIENSRIVLQINNACLAADD F*TKYEREQT/LA/RTDLEMQTE GLKEELAYLKKNHEGEINALRG QVGGQISVEVDSALGADATNIL SDMQSQYENRKDAERWFTSCT EELNWEVVGHMEQLQMNRSQ VTDLRCNLQGLEIELQWQLSM KAALEARFGPQLAQIQAIISSIE AQLGDVRADSERQNEYQLLM DIKLWLEQELATYLSLLEGQEE HYNLSLSTSKIL
9028	39396	A	9087	3	2026	AGPWDRMGAMGSLVGGDLGL VWGCAGEGFAGIPFSPCALTQC EGNQGTRAKWVQTSTRILKGQ VKQARGAQVTPYSPLWHGKLG RAAPTFNAPGRWLLPLLLPPPL L*ITTCLLGKRTLQEALSLKLQE LRKVCLQEAVRAWP*GYQAGR LGGGEELGPLGRPPTARAYPPP HPNQAHHSCLPAEV/MQMGVE SKRVGRGDRYRGVARRMALA PDLSTEQRRRRRQVQADALRRL HELEEQLRDVRARLGLPVLPLP QPLPLSTGSVITTQGVCLGMRL AQLSQGEHPLVRVGEWTLANG RGRAGMGDSYPPNLPPTPTSL* PIPFIHVSGGSPERRTPWKPPPS DLYGDLKSRRNSVASPTR*E*A PPPLRRSWEWDSKPGAEGPAS DRASLFVARTRRSNSSEALLVD RAAGGGAGSPAPLAPSASGPP VCKSSEVLYERPQTPAFSSRTA GPPDPPRAARPSSAAPASRGAP RLPPVCGDFLLDYSLDRLPRS GGGTGWGELPPAAEVPGLSR RDGLLTMLPGPPPVAADSNSP LLRTKDPHTRATRTKPCGLPPE AAEGPEVHPNLLWMPPTTRIP SAGERSGHKNLALEGLRDWYI RNSGLAAGPQRRPVLPSVGPPH PPFLHARCYEVGQALYGAPSQ APLPHSRSTAPPVSGRYGGCF
9029	39397	A	9088	1	136	
9030	39398	A	9089	14	310	TFLFIYFFFTETESHSLVPRLECS GVISAHCNHLHLLGSNNATSAS *VAVITGACHHAWLIFVFLVEA GFCHVG/RRLVSNS*PQVIRLPW PPKVLGLQA
9031	39399	A	9090	1	436	
9032	39400	C	9091	75	410	

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9033	39401	A	9092	1	6691	MVNTYREVKEGPVILEDV LIEV FRTLYSQCKAELDLQTEPPFSK DHAQLSSKLRENKKTAEIKTA NLLFNSFEPYYMWDYVARWFE ECCRRTLHVRLQIGPGDSNDSS ELQLTNFCLLVDFLLDIVSLETY IEIQTEHLPQLLLRMISALTSHL QTLHLSELTDRLRLCSKILSKVQ PPLLSASTGGVLQFSPGQNNVS KEWEDKKVSSVSHENPTEVFE DGENPPSSRSSES GFTEFIQYQA DRTDDIDRELS
9034	39402	A	9093	293	687	PTAKVYIFSIFLTYHIVCCINTSS LFGFLQKNPEEDNSGRTLGWE PGHLLALTICTVRSMEQLLPFFN VLSQVFNSKVTSRCGGHSGSPI LYSNAFPNKDMKLENHKPCSS KARQKIEEMVEKDFLEGMIKT
9035	39403	A	9094	3	4173	IPMVVSDFDLPDQQIEILQSSDS GCSQSSAGDNLSYEVDPETVNA QEDSQMPKESSPDDDVQQVVF DLICKVVSGLVESASVTSQLEI EAMPPKCSIDDPDEETIKIEDDSI QQSQNALLSNESSQFLSVSAEG GHECVANGISRNSSSPCISGTTH TLHDSSVASIETKSRQRSHSSIQ FSFKEKLSEKVSEKETIVKESGK QPGAKPKVKLARKKDDDKKKS SNEKLKQTSVFFSDGLDLENW YSCGEGDIS
9036	39404	A	9095	5	1055	FDLVRNLTVMVTRREKIKRS VCKVQE QIFNLYTKLLEQERVS GVPSSCSSSLENMLFNPSVG PDAPKIEDLKW/PFCISSENKWV LPWVSFG*KRPIKSRILLQN*PW K*RQNPAEAARPVW*KGGDGG PRELFGFRKDLCRSTSHISTTEK WCGDARPWEKKRQSFSL*SH*R RLKGRIF*TESQAS/PGPQMCP GIWTTQELPPPLEWGSQHLGTR KEIVPKCNGSLIKVNYNQTAVK VPTTPASPVKNWGGFRIPKKGE RQQ/PGRGPRWGLPPALRLPIFG LRPSS\TKERAKSKLSDNEND GYVPDVEMSDSESEASEKKCIH TSSTISRRTDIIRRSILAS

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9037	39405	A	9096	3	1136	FDIPFPKIGKLIKSNVPELRGHFP LSITLVLRMLLASKGDDPEDA KAKVLSVLKHSLLSFKQPRVM DMLKLYFLFSLQFLGGKRAI*IQ EG*SYGVCWDLVFTFGIYPWNL SNLVFVSFLVNGLFHDLCPTR KGSKHFSQDVMKLVVLVLAHL FGRRYFPKFKQDAHFEFYQSKV FLDDLPEDFS DALDEYNMKIME DFTTFLRIVSKLADMNQEYQLP LSKIKFTGKECEDSQLVSHLMS CKEGRVAISPFCVCLSGNFDDDL LRLETPNHVTLGTIGVNRSQAP VLLSQKFDNRGRKMSLNAYAL DFYKHGSLIGLVQDNRMNEGD AAYLLKDFALTIKSISVSL/HVT YCENEDDNVVLAFEQLSTTFW
9038	39406	A	9097	2	522	
9039	39407	A	9098	3	1080	FLLPFSHQSKKENS DQMLTFLT SFNSLHSAMESFFQATGNSTNL ADDGKRRTVVTPTVILTKIDGVN VDTHHIPVNVTLRRIAGADAV AARWDFDLLNGQGGWKSDGC HILYSDENITTIQCYSLSNYAVL MDLTGSELYTQAASLLHPVVY TTAILVLCLLAVIVSYIYHSLI RISLKS WHMLVNL CFHIFLTCV VFVGGITQTRNASICQAVGILH YSTLATVLWVGVTARNIYKQG H*KS*KMPRIPEP/RTFNQDQW LRFYPLVGGYPPSLVLRA*LA AANIKELRQSAKPHY/WLGW HGNPPWEAFYGPASFSTFVNC MYFLSIFIQLKRHPERKYELKEP TGQQQRLACQ
9040	39408	A	9099	1	307	
9041	39409	A	9100	2	286	

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9042	39410	A	9101	35	1211	EKDLLWEEKFPDRRTTVTELPQT SHVSFSEPDISSKSTELPVDWSI KTRLLFTSSQPFTWADHLKAQE EAQGLVQHCRATEVTLPKSIQD PKLSSELRCTFQQSLIYWLHPAL SWLPLFPRIGADRK MAGKTSP WSNDATLQHVLMSDWA VSFST LYNLLK\KNFSPYFYVCTYQFT VLFRAAGLAGSDLITALISPTTR GLREAMRNEGIEFSLPLIKESGH KKETASGTS LGYGEYVIKITL/S SSTDLTWTHEIDLHRNSL*NRDS NCSNF/LREQAISDEDEEESFSW LEEMGVQDKIKKPDILSIKLRKE KHEVQMDHRPESVVLVKGINT FTLLNFLINSKSLVATSGPQAGL PPTLLSPVAFRGATMQLKARS VNVKTQALSGIQRPI
9043	39411	C	9102	48	464	
9044	39412	A	9103	1	140	MNRLKKEWMLEHIVENNSGM ESQDIKGFHFAADKDLLEMGY LQKRGLIGLTVLHGWGGLTIM AEG*KRSGCLSTLWKITPAWNL KTLKAIFMLLIKTYLKWAIYKR
9045	39413	B	9104	1289	2767	
9046	39414	A	9105	3	1278	INNTNTFRVLPHPSFVYTAKFHP AVRELVVTGCYDSMIRIWKVE MREDSAILVRQFDVHKSFINSL CFDTEGHHMYS GDCTGVIVVW NTYVKINDLEHSVHHWTINKEI KETEFKGIPISYLEIHPNGKRLLI HTKDSTLRIMDLRILVARKFVG AANYPGEDS*YFD/VH/GGTFLF AGSEDGIVYVWNPETGEQVAM YSDLPFKSPIRDISYHPFENMVA FCAFGQNEPILLYIYDFHVAQQ EAEMFKRYNGTFPLPGIHQSQD ALCTCPKLPHQGSFQIDFVHT ESSSTKMQLVNQRLETVTEVIR SCAAKVNKNLSFTWPPAVSSQ QSKLKQSNMLTAQEILHQFGFT QTGIISIERKPCNHQVDTAPT VV ALYDYTANRSEDLTIHRGDIIRV FFKDNEDWWYGCQHRERGQEG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9047	39415	A	9106	1	1249	MAVLIFLGCLLGGAIGLPIAWA LLLCGAALMFWLDMFVQIMA QTLVNGADSFSLAIPFFVLAGE IMNAGGLSKRIVDLPKMLVGH KPGGLGYVGVLAAMIMASLSG SAVADTAAVAALLVPMMSA NYPVNRAAGLIASGGHAPIPPSI PFIIFGVSSGLSISKLFMAGIAPG MMMGAATLTGKRARFTEDDTR ERDAISVINHQRNAVLIRQVRK LQQLFVIRVLAMRIFVYGSLRH KQGNSHWMTNAQLLGDFSIDN YQLYSLGHYPGAVPGNGTVHG EVYRIDNATLAELDARTRGGE YARQLIQTPYGSAMVYVQRP VDGLKLIESGDWRVLRWLRVH SIDVPDPIFGLTVTGDRDTRAG KTSPAQAGCKLFLTNPLGIGVL TTAEKKSLLKPEHQGLATEVM CRMNIAGASFANIEGVKAMTD VTGFGLLGHLEMCQGAGVQA RVDYEAIPKLPVVEEYIKLGAV PGGTERNFASYGHLWLR*LAL AP/LEVVEANGSL*CSGERGCL YGQTTTIQLNFRPAFCPEHAIAG QKVAILRLNMQIDIKRVSSRTH GNHFTNFKFTVQHYRSCLT

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9048	39416	A	9107	162	2106	KMSKCLKIAVSDSCPDCFTTQRE CIYINESRNIDVAAIVLSLNDVT CGKLDEIDATGYGIPVFIATENQ ERVPAEYLPRISGVFENCESRRE FYGRQLETAASHYETQLRPPFF RALVDYVNQGNsafDCPGHQG GEFFRRHPAGNQFVEYFGAVPC RLVIPALKKQRKLSDETAIVV VDRFSGEVRAMVGGSEPQFAG YNRAMQARRSIGSLAKPATYLT ALSQPKIYRLNTWIADAPIALR QPNGQ\ESVRVMLVDALTRSM NVPTVNLGMALGLPAVTETWI KLGVP\KDQLHPVPAMLLGALN LTPIEVAQAFQTIASGGNRA\PL SALR*TIAEHGKELYQSFPQAER AVPAQAAYLTLWTM\QVVR GTGRKLGAKYPNLHLAGKTGT TNNNVDTWFAGIDGSTVTITW VGRDNNQPTKLYGASGAMSIY QRYLANQTPTPLNLVPPEDIAD MGVDYDGNFVCSGGMRLPV WTSDPQSLCQQSEMQQQPSGN PFDQSSQPQQPQQQPAQQEQ KSDSGVAGWITDMFGSNEHLS GYELDSYPLSSARRRARFTEDD TRERDAISVINHQRNAVLIRQR VKLQQLFVSNHIACWIRRPGDA NHPGFFANMQMLKIDVVFKLA FRQQFNIRTRDKQIFFQSGVT
9049	39417	A	9108	1	66	
9050	39418	C	9109	79	150	
9051	39419	A	9110	2	475	GRGRWGAPRLRGAL*DP*GHF LGQQPRPQLHSPAPDR/PAPTPT DAEGL/PPAAAAAAGATARVP GSRGG*GQAAEELHEAGEAQA CRGGTEDEEHG**HLCHGRAS* CPGVSGSTGSPHPSMAPDDT SGLLEFVGVPQLTLFAWVSPAE AAEQRL
9052	39420	A	9111	171	462	PTSMGHLYSFPGN*SHAHYHPI KT*SPLPHSTPISNPSAPLKGLK PVITRLLQHGLLKPINSPYHSPIL PVLKPDKAYKLVLQNLRLINQIV LPIHSM
9053	39421	A	9112	1	573	
9054	39422	C	9113	100	297	
9055	39423	A	9114	1	1401	

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9056	39424	A	9115	24	482	VGSGDLPWEGNPLSSCSLLHEK DPPTTSGPQT/GP/GPRNISPIILNR AAPRQAQLGPNSSSASAPPPYN PFITSPHTWSALQFRFVTSPPPP AQQTLKKVAGAKGTVKEHFC HDLPASSMQSNYPVHDSGHLT TGPSLFKPTLNIEYSTGHAP
9057	39425	A	9116	1	489	
9058	39426	A	9117	1	642	
9059	39427	A	9118	237	748	ETNPLSSCSLLRDKDPPTTSSPQ THQPKKHPPISNPAAPHQAELG PNPSSASAPPPYNLFITSPHTW SGLPFRSVTSPPPPAQQFTLKKV AGAKGTVKTITDIELQVTLTVE ARLRPGEINSHVAHTKPVWWS LHTDTCDIWCRPGTGGLLQET SPLSSPSLCEEIHL
9060	39428	A	9119	63	255	WVSGSVQVKVERGWDEGCKGI VKKACLTYTNRIMHCVGRY*A *ESIWWHHGVNRQNNLVDKA
9061	39429	A	9120	24	389	SDVKANLSTGGPVGCGDGL/P VAEKPSDAVEAPGV*APSAGG AGPA\PSGLEPSGAPPPP/ALPP RAVLDSGLAPGRPLPLASSNP/P PAGRRLLLCTSPGRRGGAAGSG PRCPESKSIPLRCL
9062	39430	A	9121	704	867	CVKECLDVRHLRPFAYFTTRII* ILQDGKIQSAIF/CVIWNYCRVCI GVKRHSRRK
9063	39431	A	9122	1	7068	
9064	39432	A	9123	2	165	LLKRELNFDYKISTTKERHLQ QS*PKDSVPSLLASQTPNAPFL APQRRLLCLA
9065	39433	A	9124	1	148	IRHSVNLLRAG/RIFVFEPPPGLK ANTQRTFESGMKHVRIIYMMEF HVFM

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9066	39434	A	9125	1	2340	QFGIWLDSSSPEQTPYLVWSEE TPATPIGQAIHRLLLIQAFRPDR LLAMAHMFVSTNLGESIFMSIM EQPLDLTHIVGTEVKPNTPVLM CSVPGYDASGHVEDLAAEQNT QITSIAIGSAEGFNQADKAINTA VKSGRWVMLKNVHLAPGWLM QLEKKLHSLQPHACFRLFLTME INPK\VPV\NLLRAGRIFVFEP\PP GVKANMLRTFSSIPVSRICKSP NERARLYFLAWFHAIQERLR YAPLGWSKKYEFGESDLRSAC DTVDTWLDDTAKASGRQNISP DKIPWSALKTLMAQSIYGGRV DNEFDQRLNLTFLERLFTTRSF DSEFKLACKVDGHKDIQMPDGI RREEFVQWVELLPDTQTPSWL GLPNNAERVLLTTQGVDMISK MLKMQMLEDEDDLAYAETEK KTRTDSTSDGRPAWMRTLHTT ASNWLHLIPQTLSHLKRTVENI KDPLFRFFEREVKMGAKLLQD VRQDLADVQVCEGKKKQTN YLRTL\NELVKGILP\RSWSHYT VPAGMTVIQWGVPIARR\KQ LQNISLAAASGGAKELKNIHVC LGGLFVPEAYITATQYVAQAN SWSLEELCLEVNVTTSSQGATLD ACSFVGTGLKLQGATCANNKL SLSNAISTALS LTQLRWVKQTN TEKKASVVTLPVYLNFTADLI FTVD FEIATKEDPRS FYERGGG
9067	39435	A	9126	3	6375	HKVAAPDVVVPTLDTVRHEAL LYTWLAEHKPLVLCGPPGSGK TMTLFSALRALPDMEVVGLNFS SATTPELLLKTFDHYCEYR RTP NGVVLAPVQLGKWLVLFCDEI NLPDMDKYGTQRVISFIRQMVE HGGFYRTSDQTWVKLERIQFV GACNPPTDPGRKPLSHRFLRHV PVVYVDYPGPASLTQIYGTFNR AMLRLIPSLRTYAEPLTAAMVE FYTMSQERFTQDTQPHYIYSPR EMTRWVRGIFEALRPLE

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9068	39436	A	9127	3	617	SWFQPPSGPPWPGA\PPPPPLAR VNPGVVPSLTTS LMDVEP*AQV ELPSHPRVPSPAPGPAP*VLEPP RSLTTSVVGPPQGPSWAGGGMA VRQALEEAACRDP CIAISSWAG GDRPLWWLDG LLLRRVYPDSC PPCPSRIPAIFGASLQGSINPILQ MRKLFPHDMDLL*GQDPFSCR RPESWNRDVGWLALGVFCLVP FSLVGSLN
9069	39437	A	9128	1	702	
9070	39438	A	9129	1	1317	
9071	39439	A	9130	1	2641	MGLKARRAAGAAGGGGDGGG GGGGAANPAGGDAAAAGDEE RKVGLAPGDVEQVTLALGAGA DKDGTLLLEGGGRDEGQRRTP QGIGLLAKTPLSRPVKRNNAKY RRIQT LIYDALERPRGWALLYH ALVFLIVLG\CLILAVL\TTFKEY ETVSGDW LLLLETFAIFIGAEF ALRIWAAGCCCRYK GWRGRLK FARKPLCMLDIFVLIASVPVVA VGNQGNVLATSLRSLRFLQILR MLRDGPGE GGTWKL G\SAICA HSKELITAWYIGFLTILSSFLV YLVEKDVPEVDAQGEEMKEEF ETYADALWWGLITLATIGYGD KTPKTWEGRLIAATFSLIGVSFF ALPAGILGSGLALKVQE QHRQK HFEKRRKPAAELIQAAWRYYA TNP NRIDL VATWRFYESVVSFP FFRKEQLEAASSQKLGLLDRVR LSNPRGSNTKGKLF TPLNVD AI EESPSKEPKPVGLNNKERFRTA FRMKAYAFWQSS EDAGTGDP MAEDRGYGNDFPIEDMIPTLKA AIRAVRILQFRLYKKKFKETLRP YDVKDVIEQYSAGHLDMLSR IK YLQTRIDMIFTPG\PPSTPKHKE VFRKGQHFTFPSQQSSRGLNHM *ARPSTSENE DQRH*WGKFVKS LKGQV\QGLGRKLD FLVDMHM QHMERLQVQVTEYYPTKG TSS PAEAEKKEDNRYSDLKTIICNY
9072	39440	A	9131	353	477	QNEILPQISKSNNEI*SRSPH*ITR NLNNSNKM AHKMKFAN
9073	39441	C	9132	170	310	

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9074	39442	A	9133	1	859	MSCGRPPPDVDGMITLK\VDNL TYRTSPDSLRRVFEKYGRVGDV YIPREPHTKAPRGFAFVRFHDR RDAQDAEA\AMDGAE*EGRAL RI\QVARYGRRDLPRSRQG/PTP RGRSRGGGYGRRRSYGRRSRS PRRR\HRNRFFCPCSRSRRRGR YRGSRYSRSPYSRSPYSRYSR SPYSRSRYRESRYGGSHYSSSG YSNSRYSRYHSSRSHSKPGSSTS SRSASTSKSSSARRSKSFVS\RS RSR\SRSSSMTRSPPGVSKRKSK SR\SRSKRPPKSPEEEGQMSS
9075	39443	A	9134	161	332	SCLNQLN/YLEMWKLFRKAQE DHTLGRDISYVAEVRPGEAGGR AHTGDSLLTMNPSFL
9076	39444	A	9135	1123	1489	LQTLQGHNSQNSMVLVPKQR YRSMEQNRALRNNVTYLQLSD L*QA*EKQAMGKGFPIS*MVLG KLASHM*KAESGSLPYTLYKN* FKMD*RLKH*T*NHKNPRRKPR HYHSGHRHGQGLHV
9077	39445	A	9136	277	367	
9078	39446	B	9137	1	1136	
9079	39447	A	9138	3	1168	
9080	39448	A	9139	1	1460	ERGLETNSCSEELSSPRGGG GGGRLLLQPPGPELPPVPFLQD LVPLGRLSRGEQQQQQQQPPPP PPPPPGPLRPLAGPSRKGSFKIRL SRLFRTKSCNGGSGGGDGTGK RPSGELAASAASLTDMGGSAG RELDAGRKPKLTRTQSAFSPVS FSPLFTGETVSLVDVDISQRGLT SPHPPTPPPPRRSLSLDDISGT LPTSVLVAPMGSSLQSFPLPPP PPHAPDAFPRIAPIRAAESLHSQ PPQHLQCPLYRPDSSSFAASLRE LEKCGWYWGPMNWEDAEMK LKKGKPDGSFLVRDSSDPRYILSL SFRSQGITHHTRMEHYRGTFSL WCHPKFEDRCQSVVEFIKRAIM HSKNGKFLYFLRSRVPPLPPNS CQ\LIYPMRFSIYESFQHLAKF RIRQLVRIDHIPDLPLPKPLISYI RKFYYYDPQEEVYLSLKEAQS VSKQKQEVPEST*RGAPCWSP RAFGCQAPALKNQIKLP

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9081	39449	A	9140	2	418	KSPSKYLCYTFIISTAALVLLIM LPHESMPVYLGMACTLGFGAIV FTQRAV\FFAPIGEAKIAENKTG AAMALGSFIGYAPAMFCFSLYG YILDNLNPGIIGYKIVFGIMACFA FSGAVVSVMLVKRISQRKKEM LAAEA
9082	39450	A	9141	26	180	KPAHQCCVFFCPVVSAHQGEV LPYKSGVTSIESFVTICKVIRR* LLSFLA
9083	39451	A	9142	299	921	FGTAALVL*IVLPPEISPSH*GM ACTLGLGAIVLTQRAV/FFAPIG EAKIAENKTGAAMALGSFIGYA PAMFCFSLYGYILDNLNPGIIGYK IVFGIMACFAFSGAVVSVMLVK RISQRRIRRLRRIRQFHRRNTSS RYGSGFARGGRKATRGISSQEL GQGLSGEEQDGASGGVTAGDI ATGDYFLLTPHLQICTGAKGGL GCVVEGR
9084	39452	A	9143	1	752	MSELPFAIASKRKEYVGIQLPR YTIQKLEENLNVVLFDRSGHRT KFTNVGRMLLERGRVLLQAAD KLTTDAEALARGWETHLTIVTE ALVPTPAFFPLIDKLAANKANTQ LAIIT*VLGAWERLEQGRADI VIAPDMHFRSSSEINSRKLYTL MNVYVAAPDHPHQEPEPLSEV TRVKYRGIAVADTARERPVLTV QLLDKQPRLTVSTIEDKRQALL AGLG VATMPYPMVEKDIAEGR LRVVSPESTS
9085	39453	A	9144	389	760	SWRIDVHPV*YTTRLFPFVLPY MQKGTSIRTSSRQLLDKQPRLT V/STIEDKRQALLAGLGVA/TMP YPMVEKDIAEGR LR/VVSPESTS EIDIIMAWRVTKRTPKN*WTM MPENIGEYTKTTHILG

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9086	39454	A	9145	1	941	MTAMERSRILRRRAVDILRRND ELAKLETLDTGKAYSETSTVDI VTGADVLEYAGLIPALEGSQI PLRETSFVYTRREPLGVVAGIG AWNYPQIALWKSAPALAAGN AMIFKPSEVTPLTALKLAEIYSE AGLPDGVFNVLPVGVAETGQY LTEHPGIAKVSFTGGVASGKKV MANSAASSLKEVTMELGGKSP LIVFDDADLDAADIAMMANF FSSGQAKR/NGARVLCGGDGVR ARDRPNLRRENLRGKYHS*QR HRRPDAC*YRPRL*RCGGRYAD D*VQAGAGSDGL*ATGHGGRR EC*PYVTGEAG
9087	39455	A	9146	3	504	DQQQNRQRILDCFPHAQWAKE VDVSDKEARCGVRCATRDHLP MVCNVPDYEATLVEYASSAEH KDDAVSAPVFDDLFI\GSRGLC SGPLCAEILAT*IS\DEPMMDA SML\AALIPNRLWVRKLLKGKA VKAGAVHFRRSIIYFHPQQANA LDFPSTHIKYCTMLL
9088	39456	A	9147	197	353	YGFRWPD*AHPAIN*ASAASISF LRWLIRLTSITETAPLNAKQAI MPNTIL
9089	39457	C	9148	1	1263	
9090	39458	A	9149	3	726	GAKNAREAIYHIEGDPDHPNEN RLRYPEYRAPGSDKWQRISWEE AFSRIAKLMKADRANFIEKNE QGVTVNRWLSTVNKKKISLRT VGAALVLQVVIGGIMLWLPPG RWVAEKVAFGVHKVMAYSDA GSAFIFGSLVGPKMDTLFDGAG FIFGFRVLP\AIFVTALVSILYYI GVMGILIRILGGIFQKALNISKIE SFVAVTTIFLGQNEIPAIVKPFID RLNRNELFTAICSGMASIDG
9091	39459	B	9150	1	1662	
9092	39460	B	9151	1	2658	
9093	39461	C	9152	1	2526	
9094	39462	A	9153	422	585	PYRLKQNIAGA*PIKLPNAIAAP VLFS\AIFASTIGAKILLAVLRLSR PHPSVHA
9095	39463	A	9154	1275	1485	
9096	39464	A	9155	1	439	

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9097	39465	A	9156	1049	2195	NMPKASSCRFSTATTYLRDRSC K*PWAGS*KKNSWR*CRRRTTS SHRTRLNATWGVSVKRRTKAR CSMVCASRG/SNARGLELVKE GRAQACVSAGNTGALMGLAK LLLKPLEGQNHRMLLRWEAKL AALVRLQENTAQPVPFAPNNA RPLTLEDDRLSCTVRGYNFAITF SKMSGKPTSWQLVASALATKI AHEVNPQNQVGCMLAGGNFYF YSCKPEDVWAALEKDRENFFI DVQARGTYPAYSARVFREKGV TINKAPGDDEILKNTVDFVSFSY YASRCASAEMNANNSSAANVV KSLRNPYLQVSDWGWGIDPLG LRITMNMMDRYQKPLFLVEN GLGAKDEFAANGEINDDYRISY LREHIRCNGRSDCRQAFR
9098	39466	B	9157	482	542	
9099	39467	A	9158	115	1662	TPYPDAITTHDIVDTPVQGGA VRVLVFSASLRLVSSVLFSLV WGFVSFCRRFVPCRVCVLLCCL FWCFVFGVWLP RRHMSNHAAI GVGEQQCQRGNINGAPETFAS MANTGT*QW/QRISWEEAFSRI AKLMKADRDANFIEKNEQGV VNRWLSTASLAPTFRGAMTN HWVDIKNANVVMVMGGNAAE AHPVGFRWAMEAKNNNDATLI VVDPRFTRTASVADIYAPIRSGT DITFLSGVRLRYLIENNKINAEYV KHYTNASLLVRDDFAFEDGLFS GYDAEKRYQDKSSWNYQLDE NGYAKRDETLTHPRCVWNLLK EHVSRYTPDVVENICGTPKADF LKAAPDRITTTFLYALGWTQHT VGAQNIRTMAMIQLLLGNMGM AGGGVNALRGHSNIQGLTDLG LLSTSLPGYLTLPSEKQVDLQS YLEANTPKATLADQVNYWSNY PKFFVSLMKSFYGDAAQKENN WGYDWLPKWDQTYDVIKYFN MMDEGKVTGYFCQGFNPVASF PDKNKVVSLSKLKYMVVIDP LVTETSTFWQNHEAAVSGGKR PGRKRLNLLPMARLTITIASAT YANISAQWAKRLQTAFR
9100	39468	A	9159	1	2235	
9101	39469	A	9160	1	1821	

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9102	39470	A	9161	14	1785	FDQVEERVSVIEDQMNMKRE EKFREKRVIRNEQSLQEIWDYV KRLNLHLIGVPESDWENGTKLE NTLQDIIQENFPNLRQANIQQ EIQRMPQRYSSRRTTPRHILNA HKRK*ERYKIDTLTSQKLEK QEQTYSKASRRREITKIRAEK IETQKTLQKINESRSCFEKINKID RLLARLIKKKREKNQTDVIKND KGDITDPTEIQTTIREYYKHLY TNKLENLEEMDKFLDTYTLPR NQEEVESLNRPTGSEIEAIINSL PTKKSTGPDRTAEFYQRYKEE LVPFLLKLFQSIEKEGILLNSFY ASTILIPKAGRDTTKKENFRPISL MNIDAKILNKILANRIQQHIKKL IHYNQVSFIPGIQGWFNICKSIN VIQHINRTKDKNHTIISIDAEKA FDKIQPFMLKTLNKLGDGTY LKIMTAIYDKPTASTILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQT LLKLISNFSKISGYKINVQKSQV FPYTNNRQTESQIMSELLFTIAS KRIKYVGIQLTRDVKDLFKEN
9103	39471	B	9162	1	2025	
9104	39472	B	9163	67	3156	

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9105	39473	A	9164	1	2019	MDTIKNDKGDITTDPTIEIQTIR EYYKHLKYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPVGR SEIEAIINSLPT/KKSPGPDEFTAE FYQRK\AFDKIQQAFTLKTNLK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCPLSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLGQILTRDVKD LFKENYKPLLNEIKEDTNKWEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPVAFFTLEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSLFI KWCWENWLDIWRKLKLDPFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIKLSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLSILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
9106	39474	A	9165	1	3477	

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9107	39475	A	9166	1	2460	MGDFNIPLSTSDRSTRQKVNKD TQELNSALHQADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCRRTIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNNL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTTHSKASRRQEI TEIRAELEKETQKTLQKMNES RSWFFEKINNIDRLRLARIKKKR EKNQIDAIAKNHKGDTTNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQE QVESLNRPI TGAEIEAII NSLR TKKSPGPGGF TAEFYQRYKEE/HVLEVLARAI RQEKEIKGIQLGKEEVKLSLFA DDMTVYLENPTVSAQNLLKLIS NFSKVSGYKINVQNPQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDMKELFKENYKPLLS EIKEDINKWKNIPCSWVGRINIV KMAILPKVIYRFNAIPIKLPMTF FTELEKTTFKFIWNQKRARIAK SILSQKNKAGGITLADFKLYYK ATVTKTAWYWYQDRHIDQWN RTESSEIMPHIYNILFDKPDKN KKWKGDSL FNKWCWENWLAI CRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDT GMGKDFMSETPKAMATKDKID KWDLIKLSFCTAKETTIRVNR
9108	39476	A	9167	1	1389	

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9109	39477	A	9168	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRSLH AKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN NLLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGDI TTDPTEIQTTIREYYKHLANK LENLEEMDKFLDTYTLPRLNQE EVESLNRPIITGAEIVAIINSPLTK KSPGPDGFTAIFYQRYKEELHI NRAKDKNHMIIISIDAEKAFDKI QQPFMLKTLNKLIGDGYFKIIR AIYDKPTANIILNGQKLEAFPLK TGTRQGCPLSPLLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMTVYLENPIVSAQNLLKLI SNFSKVSQYKINVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLGQQLTRDVKDLFKENYKPLL KEIKEDTNKWKNIPCSWVGRIN IMKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKIRARI AKAILSQKNEAGGITLP
9110	39478	B	9169	1	1716	
9111	39479	B	9170	1	3171	
9112	39480	A	9171	1	2952	MLLNQGRKLPRVFAETLKFK GTSNKPQTLEQISTSIHAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLNLYLQEFLLTP QWHLECQQERTVHSPGKAEEA REPSVIDRHLIQESSNWHLVGA ALGQSFQRKEQAIFAFLQPLL VIPRQTGSGVDLQKTPDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
9113	39481	B	9172	1	2406	
9114	39482	A	9173	1	2307	

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9115	39483	A	9174	3	2776	QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFPSAPHH TYSKIDHILGSKALLSKCKRTEII TNCLSDHSAIKLELRIKTLTQSH STTWKLNLLNDYVWHNEM KAEIKMFFETNENKDTTYQNL WDAFKA VCRGKFIALNAHKRK QERSKIDTLTSQKLELEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWFFERINKIDRP LARLIKKKREK
9116	39484	B	9175	133	3213	
9117	39485	A	9176	284	1689	QNFGNFKDLL*RSLW*REKSWI CML*ARNTASRQQRNKAGQR MTLMS*EKKASDDQTSR/R/Q EVRTHRKEAKNLVKRLDKWLN RITSVEKSLNDLMELKTM/RTR TTT**MHKLQ*PI*SFGRKEIQTT IREKHL YANKLENLEEMDKFL ETYTLPRLNQEEVESLNRPTGS EIEAIINSLPTKNSPGPDRFTAKF YQMYKEELVPFFLKLFQSIEQE GILPNSFYEASIIIPKPGRDPTK KENFRPISLMNIDAKIFNKILAN QIQQHKKLIHHDQMGFIPGMQ DWFNIRKSINVIQHINRTKDKN HTIISIDA EKA FDKIQQCFMLKT LNKLGIDGTYVKIIRAIYDKPTA NIILDGQKLEAFPLKTSTIQGCP LSPLLFNIVLEVLARAVRQEKEI KGIQSGKEEVKLSLFADDMTV YLENPIISAQNLLKLKSNFSKVS GYKINVQKSQAFLYTNREPN
9118	39486	A	9177	1	1515	

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9119	39487	A	9178	3	1601	ESRS*FFEKINKI/D/RLLARLIKK KREKNQIDAICKNDKGDIITDPT EIQTIREYYKHLTYTNKLENLEE MDKFLNTYTLPRLNQEEVESLN RLITGSEIEAIIINSPLTKKSPGLD TFTAIFYQRYKEELVPFLLKLF QSIEKEGILPNSFYEAIIILIQKPG RDTTKKENFRPISLMSINAKILN KILANRIQQHIKKLIHHDQVGS PGMKGWFNICKSINVMQHINRT KYKNHMIISIDEEKAFQKIQKRF MLKTLNKLSDGTYLKIIIRAIYD KPTANIILNGQKLEAFPLK\NGT RQGCPLSPVLFNIVLEVLRARAI/ RLISCFKVSQYKINVQKSQAFL YTNNRQTESQIMSELPFTIASKR IKYLGILTRDVKDLFKENYKP LFNEIKEDTNKWSIPCSRVGRI NIVKTAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRACIV KTILSKKNKAGGITLPDFKRY KATVTKTA/WSFHELGKTQLAT RTTVSTFQQIPGI*VQLRFDFSR DITLLSLLCR
9120	39488	B	9179	1	2034	
9121	39489	B	9180	1	2088	
9122	39490	A	9181	1	1870	MKAEIKMFFETNENKDTTYQN LWDTFKA VCRGKFIALNAHKKR KQERSKIDTLTSPLEKEKQEQT HSKASRRQEITKIRAELEKETQ KTLQKINESRSWIFESINKIDRPL ARLIKKKREKNQIDAICKNDKG IITDPTEIQTIREYYKHLTYANK LENLEEMDKFLDTYTLPRLNKE EVESLNRPIGAEIVAIINSPLTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQSIEKDGLPNSFYEASI ILIPKP
9123	39491	A	9182	1	1410	
9124	39492	A	9183	1	3996	

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9125	39493	A	9184	281	3030	KPRLNYMKNAEASRADAINW KKG Y/LVMEDKMNMKREGKF REKRIKRNKQSLQEIW DYVKRP NLRLISVPESDRENGTKLENTL QDIIQENFPNLARQANIQIEIQ RTPQRYSSRRATPRHIIVRFSKV EMKEKMLRAAREKEIQTNIREY YKHRYANKLENLEEMDKFLNI YTLRRLNQEEVESLNRPIRGSEI VAIINSLPTKKSPGPDGFTA EYY QRYKEELVPFLLKLFQSIEKEGI LPNSFYEASII
9126	39494	A	9185	1	2250	
9127	39495	A	9186	248	2385	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSM LLST CDIDLTAARRAWLGCLPTKKSP GPDGFTA E FYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASII PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIQGMQGWFNICKSINVI QHINRTKDKNHMII SIDA E KAF DKIQQPFMLKTLNKL GIDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSA YKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNIPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWY WYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWGKDSL FNKWCWENWL AICRKLKLDPFLTPYTKIHPRWI KDLNVRPKTIKTLEENLGNTIQ DIGMGKDFMSKTPKAMA AKA KIDKWDLIQLKS FCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKK\TNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPSLAIREMQIKTTMRYHL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9128	39496	A	9187	1	2229	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFENLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERVSAEDEMNEMKRE GKFREKRJKRNEQSLQEWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLRQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLKYANKLENLEEMD TFLDTYTLPRLNQEEVESLNRP TGSEIVAIINSLPTKKSPGPDGFT AEFYQRYKEELVPFLCLKFQSIE KEGILPNSFYEASIIIPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVIQHINRAKD KNHMIISIDAEKAFDKIQPFML KTLNKLGDGTFFKIIIRAIYDKP TANIILNGQKLEAFPLKTGTRO GCPLSPLLFNIVLEVLAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRIKYLGIQ LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AILPKVIGKTTLKFIWNKKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
9129	39497	A	9188	1	2667	
9130	39498	A	9189	1	3033	MADMLTWESCLEESLQEE SPL VTHCGPSCCISGQSPSSARPSS VSSAISVLMPLQNRKLPPAWTS PGIFPTDLVVYSMSLPHALARY NCDVCKSMLPPRLYAPEEKAR TSPLCGTWYSPSLPLCGAWCKK NEKKRERERERKRQREDILSGA SSYKDTIHIQLRPPYDVLQQIQ TTIREYFKHLKYANKLENLEEMD KLLDTYTLPRLNQEEVESLNRLI TGSEIVAIINSLPTKKSPRPGFT AEFYQRYKEE

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9131	39499	A	9190	1	950	MQAICTGQARALICMGGNFAL AMPDREASAVPLTQDLAVHV ATKLNRSHELLTARHSYILPVLG RSEIDMQKNGAQAVTVEDSMS MIHASRGVLKPAGVMLKSECA VVAGIAQAALPQSVVAWEYLV EDYDRIRNDIEAVLPEFADYNQ RIRHPGGFHLINAAAERRWMT SEIQTIREY\YKHL\YTNKL\ENL EEMDKFLDTYSLPRLNQEEVES LIRPITGSEIEAVVNSPPTKNSPG PDRFTAKFYQRY/K/EELVPFFL KLFLAAMPAPSSHGPCCSRKA LRGSKTGSAYPSSSALRRVTVS EVCCLFAEAQLF
9132	39500	A	9191	1	3470	MASVSSATFSGHGARSLLQFLR LVGQLKRVPRGTGWVYRNVQRP ESVSDHMYRMAVMAMVIKDD RLNKDRCVRLALVHDMACIV GDIAPADNIPKEEKHREEGNK CHKQKAMGKHLKEPHVLGQET KGLESTDVLLPLPAAGQDLGRE KKIREEAMKQITQLLPEDLRKE LYELWEDLEFESPCLDSLCC SLKPQSESSPVLPEGCETLIQRL CAVGTGVTAAALATRLCRASGL PAPHQWASELQSRKKE
9133	39501	A	9192	1	3907	MAAWNLLLSYAYWGGLRKE DFHCLDRKTLRTVSFLAALLSY ESIGGKGKLTTRKDIYTENPSV HHHHQRPKVDKTTKMGKKQN RKTGNSKMQSASPPPKERSSSP ATEQSWMENDFEELREEGFRRS NYSELREDIQTGKKEVENFEKN LEECITRITNTEKCLKELMELKT KARELREECRSLRSRCDQLEER VSAMEDEMNMKREGKFRDK RIKRNEQSLQEIWDYVKRPNLR LIGVPESDVENGTKLENT
9134	39502	A	9193	3	3197	

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9135	39503	A	9194	1	3158	MVKGSIQQEELTILNIYAPNTG APRFIKQLLSDLQRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNYLSDHSAI KLELRJKNLTQSRSTTWKLNNL LLNDYWRKQERSKTDLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
9136	39504	A	9195	1	3285	
9137	39505	B	9196	1	1366	
9138	39506	A	9197	735	3541	RSFPRSRPSPFLLLSRYLRIHVMV FSVLPFGLQNPKYLLSGSLQEK FRTPGINSHKTLDPNRVVIKVR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITTDATIEIQTIREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNRPITGSEIEAIIINS PTKRSPGPDGFTAIFYQTYKEE LVPFPLKLFQSTEKEGILPNSFY EASIIIPKPGRDTTKKENFRPIS
9139	39507	A	9198	1	5356	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSAMEDEMNMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIYRTLHPKSIEYTFSS APHHTYSKIDHIVGS

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9140	39508	A	9199	1	2491	MGDFNTPLSTLDRSTRQEVNK DTQELNSALHQVDLIDIYRTLH PKSTEYTFFSAPHYTYSKIDHIV GSKALLSKCKRTEIITNCLSDHS AIKLELRIKKLTQNHSTTWKLN NLLLNDYWVNNEVKAEIKMFF ETNENKDTTYQNLWDTFKAIN KIDRPLARLIKKKREKNQIDAIK NDK\WDITTDPTIEIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPIITGSEIEAI TNSLT\TTKKSPGPDGFTAKFYQR YKEELVP\FLLKLFQLEKEGILP NSFYEASHILIPKGRDTT\KQKK NFRPISLMNIDAKILNKILANRI QQ\HIKKLIHHDQVGFIPG\MQG LFNICKSINVIIHHINRTKDKNYM IIS/I*DAEKAFDKIQQPFMLKTL NKLIGDGTYLKIIRAIYDKPTAD IILNGQKLEAFSLKTGTRQGCP SPLLFNIVLEV LARAVRQEKEIK GIRLGKEEVKLSLLADDMIVYL ENPIVSAPNLLKLISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD MKDLFKENYKPLLNEIKEDTNK WKNIPCSWVGRINIMKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKMSIIDTGGW
9141	39509	A	9200	1	3083	MGKKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNEKCLK ELMELKTKARELREECRLSR CDQLEERVVSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQI QEIQRTPQRYSSRRATPRHIVR FTKVEMKEKMLRAAREKEIQT TIREYYKHLYANKL

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9142	39510	A	9201	1	4201	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKGQEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNMKQE GKFREKRIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTS
9143	39511	A	9202	715	6193	GQHHPDTKAWQRHNKKKENF RPISLMNIDAKILNKMLANQIQ QHIKKLIYHDQVGFIPGMQGW NICKSINVIIHHINRTKDKNHMII SIDAAKAFDKIQPFMLKTLNK LGIDGTYLKHRAIYDKPTASIIL NGQKLEAFTLKTGTRQGCPLSP LLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDIMIVYLEN PIISAQNLLKLIGNFSKVSQYTIN VOKSQAFLYTNNRQTESQIMSE LPFTIASKR
9144	39512	A	9203	1	3682	KEGHYIMVKGSIQQEELTILNIY APNTGAPRFIKQVLSDLQRDLE SHTLIMGDFNTPLSTLDRSTRQ KVNKDTQELNSALHQADLIDIY RTLHPKSTEYTFFSAP\HHTYSK IDHILGSKALLSKCKRTEIITNCL SDHSAIKLELRIRKL\TQN\RSAT WKVNNLPPGMTYV\HNGNE GQKLKMFETQWE/HKDTAYQ NLWDTFKAGCRGKFIALNAHK RKAGKDPKLTPLTSQLKKLEK QEQT\HSKAS
9145	39513	A	9204	1187	1680	DSPCTIASTRSYFICNRPLSVDI QLRCSCRNVRLSTYC/LYLRQ LRIEGGNFVFTTKADNGPQQIIT *TNSFPVGNAQTVKVRHHILT FFINLFGKEIGGPDHFNGFTQP LPSGGTQPQHLSCVTIDGGNVT MRIHRNQPFINRTKQRLLLTDH ACDLLWLH
9146	39514	A	9205	3	293	ERSWSQLLFSTEQFWQQLPGTG SGRARQNISRKTPREHAGGYRR DNGNNWAVPHIQCNLVPR**K RPPVRAHRAPE TLCASKALQEQ RYWVFELLR
9147	39515	A	9206	1	4509	
9148	39516	A	9207	1	507	

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9149	39517	B	9208	1	3448	
9150	39518	A	9209	1	2652	
9151	39519	A	9210	75	784	
9152	39520	B	9211	1	1968	
9153	39521	A	9212	1	298	LQGH LVGDYVSL SCLPFGIMGH GNWPLWVLTACL VLLLC*/WSL RRQ*IQQ*APSDQKRDFLVPHG A/VFDR*ISATCWSSINWPANCS RPSIAGWPKQAS
9154	39522	B	9213	167	362	
9155	39523	A	9214	959	1267	YHWHQLLSMVRQLMVLSWKK ISSWFMGPPIRKSILAENSI*KN LV*VIILKLTEGISTLK*MAPQN TQY*MTVIKLFKWVARQTRLR SIMVCYSSTTTLLT
9156	39524	A	9215	370	555	
9157	39525	A	9216	1	1016	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAE AGVMMTQGTLDATIIIEAPSST KNKEQQRDPEMHQTKKGNQW HFGMKAHIGVDAKSGLTHSLV TTAANEHDNLNQLVQNELETAE RFRRQEDTQSKCLLSSIMLYIKN LSGPDVSELISPLSEGFNLCSV VVAVIAAVLRRAPIHMPSGWW RSWNAESGAYNVTRSGDSYI/H G*LLYRSRKLDPADEGALQK WWSVLPFFKRRLWF
9158	39526	A	9217	408	643	PGCGSGHSWHRHQCGPSCQSA TDCLSWSDASPDRVAALCSWS SWVPQ*WWHR/HKVP*VIMTP ASASQRLMVLNNWRAS
9159	39527	A	9218	626	760	
9160	39528	A	9219	1	2469	
9161	39529	A	9220	1	756	
9162	39530	A	9221	1738	1913	PTAWSPPRPTSMTSISWVICFME RSNLSQPMPTAKERHSARSWPR WMWTG*SPSVPAR
9163	39531	A	9222	2403	2760	FRGDGILVSCPLVFSSAFSWRA ADGGKNNRVHPSV/VR*AGAL RPRTQSRIQ/SQRLNKVEKGGV KQFEHNQSCRQQVGVTIHKVVK QLADILPHGHFQFYAEVIGKLF RQRSARDAIRGSS
9164	39532	B	9223	1	3663	

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9165	39533	A	9224	1	1584	MELIEKHVSFGGWQNMRYHYS QSLKCEMNVGVYLPKAAANEK LPVLYWLSGLTCNEQNFITKSG MQRVAAEHNIIVVAPDTSPRGS HVADADRYDLGQGAGFYLNA TQAPWNEHYKMYDYIRNELPD LVMHHFPATAKKSISGHSMGG LGALVLA LRNPDEYVSVSAFSP IVSPSQVPWGQQAFAAYLAEN KDAWLDYDPVSLISQGQ RVAEI MVDQGLSDDFYAEQLRTPNLE KICQEMNIKTIRYQRGAI CSAD AATRGAKRESCRS CGLLIAER PAKVEPGTASRQDNTAINIEYM KASIRARVEHPFRIIKRQFGVK ARYKGLLKMETNWR CYSRWP/ HLFRADQMIRNPHDLYAPEVV HQA KAVTTSGYRFLPCCGFAN TFWGKTTADGTLIEHFGRR CQG WFEDDDGHREQCDFRFRFKNC PQCNAENDIAARRCRECDTVLV DPDDMLKAALRLKDALVLRCS GMSLQHGHD EKG EWLKITYYD EDGADVSEFR LQTPAQRTAFE QLFIRPHTRTPGI
9166	39534	C	9225	1	2127	
9167	39535	B	9226	1	1917	
9168	39536	A	9227	1671	2198	RAGAWASDPQRQGVVRNAALL PPDDRS DGRDAKTQSHRDG/VI SY/RAFDETILASGIVRTPPIDGI DHPKNEADDMLRMGFIEDVETI /IGADPGRSSDRSVLCNHAGSDS SHYPPLYERAAGSAHSVQRDYP SGHQPELLDCLGYARTRSTDTG TPERWSSGHPDCDRRCSPWPGR
9169	39537	A	9228	642	746	
9170	39538	A	9229	1	2031	
9171	39539	A	9230	909	1058	
9172	39540	A	9231	2	268	WRCLLRQLKFIIKTVTSWICTG KLMLSTTSPLMMQMMVILLMP VLASKVKPKSTIN*LVSVSGNM NSKATALNLKVPPKIPVLP SL
9173	39541	A	9232	63	463	FPATCWSSINWPANCSRPSIAG WPK/PGVMMTQGT LVDA TIIEA PSSTKNKEQQRDPEMHQTKKG NQWHFGMKAHIGVDAKSA*P TAWSPRPRTSMTSISWVICCME RSNLSQPM PATKGRHSARSWP RWMWTG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9174	39542	A	9233	74	247	RNVMIKRRVLSSTSAS*LPPASAF CRLFSTPARWRSTACFTSGNR YRFLTVRLSGYW
9175	39543	A	9234	3	271	ASYWNRSFSPWGTYNRHPR*N RQCASRHCRGLHKQYQWPRIR S/WLNCTPAPHARDVLLWRPSS LPAGNADGPIRWRPCCVFTACS IGTT
9176	39544	A	9235	1	1048	MCSFRSQTFCCSSSRFTFARVSVI HSANHRVLNDRSTIMRTRGQD PTLPEMRRVRLLEMADAMDMF CQGLRYGPLPAPVRQQAIIIPC HRVVRGDGTLSGYRWGVSRKA QLVRREAENEERPINRGWPKQP SDDPKHFVMPTHIEAPSSTKNKE QQRDPEMHQTKKGNQWHFGM KAHIGVDAKSGLTHSLVTAA NEHDLNQLGNLLHGEKQFVSA DAGYQGAPQREELAEVDVDW LIAERPGKVKTLKQNPKNKTA INIEYMKASIRARVEHPFRIKR QFGFVKARYKGLLKNETNWR CYSPWPTCFGWTK*YPSIPTCLL TTRTASLLKPPGVRTSVCWQQL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9177	39545	A	9236	1	2493	MTQIFTGTLVEADPFHAVTLVA NHDTQPLQALEAPVEPWFKPL AYALILLRENGVPSVFYPDLYG AHYEDVGGAGQTYPIDMPIIEQ LDELILARQRFAGHVQTLFFDH PNCIAFSRSGTDEFPGCVVVMS NGDDGEKTIHLGENYGNKTWR DFLGNRQERVVTDENGEATFFC NGGSVSVWVIEEAANNRQYDY GAGHKIPVINYTDVHLRIERSCR FRADPRQQHELQLSSKLAVHD VLTNIYNRRYFFNSVESLLSRPV VKDFCVMLVDINQFKRINAQW GHRVGDKVLVSIVDIIQQSIRPD DILARLEGEVFGLLFTELNSAQ AKIIAERMKNVELLTGFSNRY DVPEQMTISIGTVFSTGDTRNIS LVMTEADKALREAKSEGGNKH WYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHL LEQHQLARQLFKTINRWLAEA GVMMTQGTLVDAITIEAPSSTK NKEQQRDPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEEQF VSADAGYQGAPQREELAEVDV DWLIAERP GKVRTLKQHPKRN KTAINIEYMKASIRARVEHPFRII KRQFGFVKARYKGLLKNETN WRCYSRWP/HLFRADQMILCPV FVHHIPRFFGTFFGATDTQTFTL TESVIHQPLVLTNFIADGNDF
9178	39546	B	9237	1	3148	
9179	39547	B	9238	1	1680	
9180	39548	A	9239	191	470	

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9181	39549	A	9240	1	1675	MFARVSTTPVTRYEMYRKTRS TRLEDNNALSQSCKPLPFSEVT GSKGKADKEKVG DYVFCLKAQ GRYNGEPLTGTGKIGGMLALR GEGTPFPVQADFRSGNTRVAFD GVVNDPMKMGGVDLRLKFSG DSLGDLYELTGVLPPDTPPFET DGRLVAKIDTEKSSVFDYRGFN GRIGDSDIHGSLVYTTGKPRPK LEGDVESRQLRLADLGPLIGVD SGKGAEKSKRSEQKKGEKSVQ PAGKVLPHYDRFETDKWDVMD ADVRFKGRRIEHGSSLPISDLST HIILKNADLRLQPLKFGMAGGS IAANIHLEGDKKPMQGRADIQA RRLKLKELMPDVELMQKTLGE MNGDAELRGSGNSVAALLGNS NGNLKLLMNDGLVSRNLMEIV GLNVGNVYVGAIFGDDEV RVN CAAANLNIANGVARPQIFAFDT ENALINVTGTASFASEQLDLTID PESKGIRIITLRSPLYVRGTFKNP QSG*WS/GTLLLSTKAKTIVAISI TTLKVTVMASVSLPMNTKDS VSVQLMRNLIVPTLKLMOGKFF LKYLLPVKMQKFGPQV
9182	39550	A	9241	72	506	GHVAHLQPRAGGRQPARLHHP QGTDRVLHGQRGQQGP/LLPS LSAWRPSTSTLKPASCGLRGPT SKRMSMQDGGLPHHRAGAQP PVHPGQEAVG*C/EYWSASSRP VTQPGALMWRLWSIAGRPRPY LLSHSQHDPHSGQGGGEHP
9183	39551	A	9242	1	447	
9184	39552	A	9243	70	490	CGCDAETILRINALAFIWKCGT EWICCFCLALRELQQAVHAG LPQQAKILFDGGSEIGKIH*LRC AHCPLSS\GKPVVPAALMNRPT RGERRFAYWAPGWFFFSPVRR ATADCPSPGPERVAASGPRWF APAGENPV

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9185	39553	A	9244	1097	1841	ANDGDLRSCVTLSCHMSHASE AADPPATTAFTDEHMSVKLRR TVGVACSVCPGWVTSGHPVNP AAS/GAKVLPGDTDIALPGPLPF ILSR\QLRDNTLILSDNGG\RILY FELLFPGEDGYRRCESLWLVRG GVAKLDQGHRLAALWQALSEE LRLTPHRYLATNSPQGPWWLL GWCERVPEADEVLPAPLPPYRV LTGLVDRIWRSEDVSAASGLHH DNRNAPSLSDQTRTDPPIRAH SRYQRQKPDG
9186	39554	A	9245	456	928	EAATEPKHLHQLRHAALAQHR QAPRPQGRPLARPHQGQDQPD RLHHLRGGRHGARGHLHQA GAGESAPAPKG/VTCPASPLGD VTGKPTSAWNTEKGRWAQHR GYPSGPAAPLVLRSWPIPLFRP PPLLPLSSPAWILPSPLCHSLKA QSLVQATI
9187	39555	A	9246	1	1572	

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9188	39556	A	9247	1	2505	MAWRNSVNWQCKQEPGFLHR RHGRRKLTNGTTRRSLNKEE DFYTSQPGFPALALGCCLRVNL LLGHRGISAGSSYPITSTPCHL CKLGQEVFAKPLNLQDQCQON LVMQVLKLVNCLNDFIGSSA DESADDLCTVQIPTTWRTMGL VGCDGVCCRTRWCQCLATAV VSGVGGGPWLLPACSSGSPMIS KRKKFVHKWAKDLVEPRHGLE NVWDLPRAMAGSYLMYKQRK WKIMEFGK WALQH KMTVKDIE RLQLYNKVKEQP VQVEGSGRA STIFWVLKTFKGGKSPCGAPGE CVAWTQCRILGWVQIHKEHP ADRVVGLIKMPGLDFYFAADV CYAEKVAQEKGFYRLTSRYR HYAAFERATFEQGKSTKLMMML TDKQIADFQKH YQTEPERFQILP PGIYPDRKYSEQIPNSREIYRQK NGIKEQQNLLLQVGSDFGRKG VDRSIEALASLPESLRHNTLLFV VGQDKPRKFEALAEKLGSERAS MEFKRYEYNAAGDLTAVITPD GNRSETQYDAWGKAVSTTQG GLTRSM EYDAAGRVISLTNENG SHSVFSYDALDRL\EDEGLVIL WYYDESDRITHRTVNGEPAEQ CQYDGHGWLT DISH LSEGHRV AVHDGYDDKGRLTGECQTVEN PETGELLWQHETKHAYNEQGL ANRVTPDSLPPVEWLTYGSGYL
9189	39557	A	9248	481	857	PLAYLYRDPHVRRCVTASGPAP VYGIFQPGFSAPTG/IRKSVHGD HSYCKYAHSCSRQYRAPEPRLS RTSQCLFSHRSARCPLLDLMGR RYRRPECRLSPLLPAAPVPGLPP WTIYPRRLYRNSPR
9190	39558	A	9249	777	1229	GAGYSSARCGKHHARTGGAGR NILWRQLRRRGCRSTVDRSHH NQPGTWHRHQPGRGPAPKPAR PWRAGTHLPTGTASVRHPCLG QPLRAEPRPAVPDAPRNQNLFP PAPQTDALPGAVRG*RAR*YH *SRTTTPPPDEHDHSWARACSP
9191	39559	B	9250	1	2681	

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9192	39560	A	9251	933	1828	VSRIHVLVWQPRMPAPPAVDW LTY/GSGIL/SGNKLVGTPLEVEY TRDSLH/RETLRSFASMAGSNA AY/*LTSTDTPAGQLQSQH/LNS LVYDRDYGWSNDNGD/LVRISGP RQTREYGYSATGRLESVRTLA PDLDI/RIPYATDPAGNRLPDPE/ LHPDMRADGGATGQKVEPEYT PARKAHLHYHTTGDCRWRLSA KTAIRVERGI**MGQPAY*GEPH HVVYQPR*TWHWRWRQKGRKS ASGRRYLRLPINPNNVGRENQRP TSPDGTHMAPISLMAWQPIQLR YRGHVRQRLSAVGERIYRYLPP
9193	39561	A	9252	1	1409	MECDASALLRYDSRQFIPLAID GLAKDVLGRRFALEGHPRLEAI ARAGDVVRFPADSELPDPYDG LIPGQESLKVHACVGLPLFAGQ NLIGALTLDGMQPDQFDVFSDE ELRLIAALAAGALSNALLIEQL ESQNMLPGDATPFEAVKQTQM IGLSPGMTQLKKEIEIVAASDLN VLISGETGTGKELVAKAIHEASP RAVNPLVYLNCAALPESVRKSE LFGHVKGAFRTGAISNRSGKFEM ADNGTLFLDEIGELSLVLQAKL LRVGQYGDQIRVGDDRCLRVD VRVLAATNRDLREEVLAGRFR ADLFHRLSVFPLSVPLRERGD DVILLAGYFCEQCRLRQGLSRV VLSAGARNLLQHYSFPGNVREL EHAIHRAVVLARATRSRGDEVIL EAQHFAFPEVTLPTPEVAAPV VKQSLREAT*AFQRETIRQALA QNRKRWACARMLETSVANV HRLGKRLVLKK
9194	39562	A	9253	389	799	PQFLIPSVTPCMFIHPLDAK/AR DLRRGDKVKVVSRRGEVISIVE TRGRNRPPQGLVYMPFFDAAQ LVNKLTLDATDPLSKETDFKKC AVKLEKACPYDTLKLATLASG LSAGTPYFVARDIPCCEMCEIPC AKVCPS

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9195	39563	A	9254	588	1500	RHPPIPAKIGLHAVAQDRA\NN MQAGPNINEERMPCWRDPRNF IIVSDPYPTVSALAADL/TPEVSK FPGSELAEDQLNDESRELGFYL QKGLFEEYAWFGRGHGHDLP FDDYHKARGLRWPVVGKET QWRYSEGNDPYVKAGEGYKF YGKPDGKAVIFALPFEPAAEAP DEEYDLWLSTGRVLEHWHTGS MTLRVP*LHRAFPDAGLFIYPL DAKARDLRRGDKVKVVSRRGE VISIVETRGRNRPPQGLVYMPFF DAAQLVNKLTLDATDPLSKET DWPHFSSTYNGPLLQGANKGIL VQQH
9196	39564	A	9255	1	1698	MEREQDSIIMDAATTRNLEITQ NLAGGAENTLASVLDCTVTPM GSRMLKRWLHMPVRDTRVLE RQQTIGALQDFTAGLQPVLRQV GDLERILARLALRTARPRDLAR MRHAFQQLPQLRAQLETVDSA PVQALREKMGFAELRDLLER AIIDTPPVLSWMSGARWLTARP IICNYEVDRTIRHTKMNVGDVQ RLSVAVVVNYKTLDPDGKPLPLS NEQMKQIEDLTREAMGFSEKR GDSLNVVNSPFNSSDESG
9197	39565	A	9256	590	910	SCSIQLSPWILPRTVMCPVGFTC ELLST*WLAKEPLKTVSWITIRS FTAETSTFGPTMTASMTFLPTY CSIIASLLSSFKLAAAILNSLPQI GRYITIGSGVRRNA
9198	39566	A	9257	1	854	MANRMILNETAWFGRGAVGA LTDEVKRRGYQKALIVTDKTL VQCGVVAKVTDKMDAAGLAF AIYDGVVANQH YCRQDSSDF AEMSLIEGRRGLRRRPLWEFEI DTARQQLNLQFGTRDLVGFV ENAPRGLCAAGCLLQYAKDTQ RTTLPHIRSITMEREQDSIIMDA ATTRNLEITQNLAGGAENTLAS VLDCTVTPMGSRMLKRWLHM PVRD/DPRVA*APANYWRIAGF HRRATAGTASGRRPPTYSGTSG FTNCSPTRSGPYAPRFPATAGA ACAVRNCR
9199	39567	B	9258	122	868	

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9200	39568	A	9259	2610	2897	PNLYLRFFFFFFLREQSHSVTQA GVQWCNLSLQPLPPGFKQFSH LTG\LPKCWDYRSKRPRPANQT SILDVKEDPY*LHWPRSNRDIK LNLVANP
9201	39569	A	9260	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RLLRRAFIDGGANSS GTGICRDAFNRIHWGTGRTP DVDSGEHRKTAEQRRDGAVR
9202	39570	A	9261	846	1022	
9203	39571	A	9262	1	1339	MNALSKARQYVEEFDGNIAIFI FSGKPGTGKNHLAAAICNELL RERNLGESEIHHTSDHMTATL PGETQTPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDESLVIKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTTPTVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVSAGTGIDELL DAILLQAEVLELKA VRKGMAS GAVIEFPSLDKG\RGFVVTVLV REGTLHKGDIVLCGFYGRVRA MRNELGQEVLEAGPSIPVEILGL SGVPAAGDEVTVRDEKKARE VALYRQGKFREVKLARQQKSK LENMFANMTEGEVHEVNIVLK ADVQGSVEAISDSLLKLSTDEV KVKIIGSGVGGITETDATLAAAS NAILEGLFTLTSQDEFVIAPGFS TDPLEEQHSVVSGLLHKYHNR ALLLVKGGCAVNCRYCFRRHF PYAENQGNKRNWQTALEYVA AHPELDEMIFSGGDPLMAKDH ELDWLLTQVVHQHDVGRRVQ RLPFIHDALFHQQFFNQHTTF GQVHLARFFVHREVDSILFRRIS VLKKMMSPHRVKDRCYCAQFI

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9204	39572	A	9263	922	2357	GKGNDEKKLVSDQ*MGTA*RQ RIHPIPSIIPLLW/YPEGPSVSRPE AGGYNSLLMVTHGKVINGGRG ILIESD\EPGDAR*SSGSCARHGL VFWLCSCRRCMPQTIEAIQHPN A/VA VNKIDRPEADPDRVKYVL SQYGILPEEWVGESQFVHGS AK AGTGIDELLDAILLQAEVLELK AVRKGMASGAVIESFLDKGRG PVATVLVREGTLHKGDIVLCGF EYGRVRAMRNELGQEVLEAGP SIPVEILGLSGVPAAGDEVTVVR DEKKAREVALYRQGKFREVKL ARQQKSKLENMFANMTEGEVH EVNIVLKADVQGSVEAISDSLL KLSTDEVKVKIIGSGVGVI EAES LDLRYYSVIYNLIDEVKAAMSG MLSP ELKQIIGLA EVRD VFKSP KFGAIAGCMVTEGVVKRHNPIR VLRDNVVIYEGELESRRFKDD VNEVRNGMECGIGVKNYNDVR TGDVIEVF EIEI QRTIA
9205	39573	A	9264	1	748	
9206	39574	A	9265	923	1387	PPNLARCSPSAMARQSPIRSPRR PLAPSPALRAPSPAPPHAARLA VPRQA*GLLLLALIAVSTHIEMI SNTLAMGWNSPLTTVLALLAC GFACFIEMGKIPFDVAASWIIMI WSQSSTCTAPTLKPLRSVTLMR LTPVSARDLVGYFATAVRLP
9207	39575	A	9266	352	478	CDPTQRKPLYWLQALRRGLPI WRNQRFKAVR*MAMAPMFS
9208	39576	A	9267	54	811	HTTGGNPLYGI/SRQIAR*QSRV/ GPGFCQDYRDIHKLFRQEVAP TSSGLMFRLMPWVLISMLVLA MALPLFITVSPFAGGGDLITLIY LLALFRFF FALSGLDTGSPFAGV GASRELTGILVEPMLILSLLVL ALIAGSTHIEMISNTLAMGWNS PLTTVLALLACGFACFIEMGKIP FDVAEAEQELQEGPLTEYSGAG LALAKWGLGLKQVVMASLFV DLFLPFGRAQELSL\ACLLTSLV VTLLKRL

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9209	39577	A	9268	2	627	CGSIIALVAIFKSFFGHYLGTL GLNGLVLKFGYKGDCTKVSLG KLNTISMIFIMGSTWVVAAYANP NILDIEAMGAPIIASLLCLLPM YAIRKAPSLAKYRGRLDNVPH AITRVDLKEDGKGLKIVRQSLP YGTASGTHGLYFCAYCARLHNI EQQLLSMFGDTDAIKAYQSFLA RSAFAVSQCIPVNTVYRAYSVI QNWIAITIRHV
9210	39578	A	9269	2648	3072	LSRTGKTTFIT/LEYAASIIAL VAIFKSFFGHYLGTLGLNGLV LKFGYKGDCTKVSLGKLNTIS MIFIMGSTWVVAAYANPNILDLI EAMGAPIIASLLCLLPMYAIRK APSLAKYRGRLDNVFVTIGLL TILNIVYKLF
9211	39579	A	9270	467	614	VPLAVPYGRLWRTIFSLPSSFR STRÆ*YESMLGRFFERTACLQQ KQF
9212	39580	A	9271	1	846	MSYLVWPFIASLVLSLSLIPYW NSAVIDQVDLGSALTGHGILI TVWGGI\STK\VFPLNFPNVFSF G\VSKARKK*KKDFGRDFTERKC SQIISRASMLMVAVVMFFAFSC LFTLSPANMAEAKAQNIPVLSH LANHFASMTGKTTFSTILEYA ASHIALVAIFKSFFGHYLGTLG LNGLVLKFGYKGDCTKVSLGK LNTISMIFIMGSTWVVAAYANPN ILDLIEAMGAPIIASLLCLLPMY AIRKAPSLAKYRGRLDNVFSTV IGLLTILNIVYQLF
9213	39581	A	9272	95	456	RAISMSFRMERPCCLSLPSSLCIS STRVTASSPLSGCSSCTLLWISW GRMVRNCSNT/MQLQDLLLRA HLRPKPPMAKLLPEAGFPGTS CLLEAEPSTIRDVVLIASQPASQ PASQQGSQI
9214	39582	A	9273	1	1241	

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9215	39583	A	9274	3	1608	SRGFPRREFSGPSIKKKVDAPTQ AQWPVHAVITNSTYDGLLYNT DWIKQTLDVPSIHLSAWVPYT HFHPIYQGKSGMSGERGAGKVI FEPQ*AHRLAALSQGSILILIKG EYDQEAFAFMHRHSPSSPSYPI GG\SVETAAAMLRGNPGKRLIN RSVERALHFRKEVQRLREESDG WFFDIWQPPQVDEAECWPVAP GEQWHGFNDADADHMFDPV KVTILTPGMDEQGNMSEEGIPA ALVAKFLDERGIVVEKTGPYNL LFLFSIGIDKTKAMGLLRGLTEF KRSYDLNLRIKNMLPDLYAEDP DFYRNMRIQDLAQGIHSRRVTA SVSSGSQANQQVNFIGDQSTAA LTLSPSGDITVTNTAPQYMTA TLQDKNGNPLKDKEITFSVPND VASKFSISNGGKGMTDSNGVAI ASLTGTLAGTHMIMARLANSN VSDAQPMTFVADKDRAVVVLQ TSKAEIINGVDETTLTATVKD PSNHPVAGITVNFTMPQEGVYA MSLEYIILTFIALNGSRMWINS REKRTQRND
9216	39584	A	9275	106	709	LRSAEDNDTREKNKQTNRS KLRLVETSGSPPTSSSQTPDPAF RYPKKY\CVEDCS\YRPE*PRITP DNRLLYGGGVVYGARDPDVVE RLVVPKLLKTFPQLKGVKIDYR WTGNFLLTLSRMPQYGRDNTNI YYMQGYSGHGVTCNHLA AELLRGDAERFADFANLPHYPF PGRTRLRVPFTTKSAAYYSLR DRLGV
9217	39585	A	9276	140	558	RKPHRQRGEKAGRNRSDV EAMSVIIVGGGMAGATLALAI SRLSHGALPVHLIEATAPESHA HPGFDGRAIALAAGTCQQLARI GVWQSLADCATAITTVHVS DRGHAGFGTLRSRKITTWGL*Q RSWARWIWYFPAKNYHLGALT TVVELQMGGKRLF
9218	39586	A	9277	3799	4086	
9219	39587	A	9278	3017	3184	
9220	39588	B	9279	1	1050	
9221	39589	B	9280	1	1455	
9222	39590	A	9281	374	506	RCIALIAWLTLPVLRVTLK*RW RVARR*RAACW*S*WHHSALA P
9223	39591	C	9282	47	406	

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9224	39592	A	9283	1	4749	
9225	39593	B	9284	507	3568	
9226	39594	A	9285	101	638	RQKYSDWSSALVPTAGEPTRH TQTTRAGIAHA\EADFAADILFL LCGKDISTAGGFSFV*LADNKQ HLMPCFANHLTVKM/PHQSPV PDH/QALISHRJRSSRGSCSRYS DNSVSRTPLSPTPGRSTMVICS PICRRKRKGSRVQAATSLTGDT SPANRALQRLLPAPVLPMMPI TGS
9227	39595	A	9286	271	532	
9228	39596	A	9287	643	768	
9229	39597	A	9288	1	1948	MCSHAAGCTIPDVEHWTRINR KVPRLVSVLPNGPDYHPTVRAF LAGGVPEVMLHLRDLGLLHLD AMTVTGQTVGENLEWRPEPGA FRQCLREQDGVPEDDVILPPEK AKAKGLTSTVCFPTGNIAPEGS VIKATAIDPSVVGEDGVYHHTG RVRVVFVSEAQAIAIKRVVIVA CGFSPTRTAHAASDIDITNTVDL RNRRSQLRRGEIVQF/IPANKYR TSA*GS*LAHPTGSLCD*VGRL DIPLAANFVQR*SPPGISPTPV
9230	39598	A	9289	2166	2426	VQPGGCGL*RQHGSYRPESRTA GGRHRG*RRLRAFDGGANSS GTGICRDAFNRIHWTGRTGRP DVDSGEHRKTAEQRRDGAVR
9231	39599	A	9290	846	1022	

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9232	39600	A	9291	1	1336	MNALSKARQYVEEFDGNIA SFI FSGKPGTGKNHLAAAICNELLL RERNLGESEIHTTSDHMTATL PGETQTPEDFRDVEQRQQVVI FQHLVGCVKVDGKYIQVCTFT VGGNYGGTCLRGDES LVIKES DIEPLIVTVVQQFHIGNGYVVI TITPSEGERYQGVVGLEGRIRRT RRIRHKQSARCYNLRFKPTCAIT QTPTEVSPVLKKQLVLPNPH YPGNKPNFKRVSVKIIGESASRR LQLSRGDIADALSDRFVSEAI TAKVEAAIKN*LSQYGILPEEW GGESQFVHVS AKAGTGIDELL DAILLQAEVLELKA VRKGMAS GAVIESFLDKGRGPVATVLRVRE GTLHKGDIVLCGFYGRVRAM RNELGQEVLEAGPSIPVEILGLS GVPAAGDEVTVVRDEKKAREV ALYRQGKFREVKLARQQKSKL ENMFANMTEGEVHEVNIVLKA DVQGSVEAISDLLKLSTDEVK VKIIGSGVGGITETDATLAAASN AILEGLFTLTSQDEFVIAPGFST DPLEEQHSVVSGLLHKYHNRA LLL VKGGCAVNCRYCFRRHFP YAENQGNKRNWQTALEYVAA HPELDEMIFSGGDPLMAKDHEL DWLLTQVVHQHDVGRRVQRL PFIHDALFHQQFFNQHQTTFGQ VHLARFFVHREVD SILFRRISVL KKMMSPHRVKDRCYCAQFICP
9233	39601	B	9292	1	2890	
9234	39602	A	9293	1	822	ITQYCD SFTICLSKGLGTPVGS L LVGNRDYIKRAIRWRKMTGGG MRQSGILAAAGIYALKNNVAR LQEDHDNAAWMAEQ LRETG\A \DVMRQDTNMLFVRVGEEN AAALGEIT*KPIRNVLI\NASPIV RLERDVPQRILVLGASGYIGQH LVRTL SQQGHQILAAARHVDR LAKLQLANVSCHKV DLSWPDN LPALLQDIDTVYFLVHSMGEAA IYRSSAGVASVSSVFRYCLRPSY DPRVFPCFLCCRALLVLPCLRIY SPLSFALVLSLAPIK
9235	39603	A	9294	1565	1825	SRMCVAIRSRNQRSCEITIAQPG NSSRAFSSARRVSISRSLVGSSSS SMLPPTCSSFARCRPRSPPESS PTRLP*STPLKLRPT

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9236	39604	A	9295	236	742	VATRCSPSPSPSLSPSLSLRVMIP TTSAYSFMITAKSSPAVLKLSN ASERVNVSGTISVLRICPLFSA RLWLASTRFSRSLEST*PMMWS ISSLQTRNLECGCSATLFFRLCS SSWRSN/TNDVFTA VTLITERDG IPAQRRFQSARVPVYVTRPPAH RLPLPRRCHQK
9237	39605	B	9296	1	951	
9238	39606	B	9297	1	666	
9239	39607	A	9298	761	1162	IILGSMAIFTILILPIHEQGMFFHL FVTSFILLSSGL*FSLKRSFTSLV SCIPRYFILFVAIVNGSSLVIWLS VFLLFVYRNACDFCTLILYPETL LKLLISLRRFWAETLGFSKYTIM SSANRDNL TSSFPN
9240	39608	A	9299	82	160	
9241	39609	B	9300	64	477	
9242	39610	A	9301	408	507	LLPLFQNLLL VYSGI*LLPGLVW KGCMPHGIYP
9243	39611	A	9302	1	3141	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRVLDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGSPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
9244	39612	A	9303	1	983	MVRASGYLQTLDDFNHIVLKA SENGVPVYL RDVAKVQIGPEM RRGIAELNGEGEVAGGVILRS GKNAREVIAAVKDKLETLKSSL PEGVEIVTTYDRSQLIDRAIDNL SGKLLEEFIVVAVCALFLWHV RSALVAIISLPLGLCIAFIVMHFQ GLNANIMSLGGIAIVGAMVD AAIVMIENA/R*TAGRVAAPAS* RHAG**NALAGQEGRLFGPLAL HQNVCDDGGCGAAGDRSDPD GLLDPWQNSAGKQ*PAQSLFDS CLSSAVAESTALAEHAAGGG AFGADGSLAAQ*SSPGEFLPQIN EGDLLYMPCDAAQGIQRRR
9245	39613	A	9304	362	436	
9246	39614	A	9305	101	208	
9247	39615	C	9306	1	882	
9248	39616	B	9307	1	822	

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9249	39617	A	9308	668	826	VNSHSQLLQRE*NT*ESNLQGM *RTSSRRTTNHCSRK*KRIQTNG RTFHAHG
9250	39618	A	9309	497	1042	LPRIPTVLTSGVRRDGYRRFG RRPSG*PGNWSSSPVEKSATRT LRITGTSAIPSEAITGSSAVVRR VPAGKTTAPTEIKSTPVSANSRS VLSVTLPDTSSSALPLVRLTASR ICSVSKLSSMMISAPAFRASSSS SRFSTSTSTGASGCSQDAFSTA WRTEPEAIIWFSLIRKASESPRR
9251	39619	C	9310	1	3447	
9252	39620	A	9311	570	647	
9253	39621	A	9312	1071	1323	RPPPHRLSGCYHPSHRRPVHGF HHA*RQRQFRR*TVDTLPADAP LPSPHPAHRPL/TSIFCPVSTMA DNASM*RNSCCRLSARG
9254	39622	B	9313	1	2585	
9255	39623	A	9314	133	357	SSFFQFCEEIHW*LDGDGIESIN YLRQ*GHFHKIDPSYP*AWNVL PFVCVLFHFIEQWFVVLLEEV HIPCKLYS

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9256	39624	A	9315	1	2680	MLVLPLFQPFMRILDHDDSSID HRPDGNRNATQRHNIGIQSLEV HDNKSNTQPQRQRNNRHQRRRA HMPEKQRTDYRRDPLESPKAA AACLFPAIADPNTPPVFTPPASL PTTGM/FDSPPFNRDA*MVMRS LIRSMTVARAVIGVAICNKGLP ATMMALAAQHNIATVLPVGGGA TLPKADGEVNGKVQTIGARFA NGELSLQDARRAGCKACASSV RRSCQFLGTAGTSQVVAEGLGL AIPHSALAPSGEPVWREIARAS ARAALNLSQKGITTREILTDKAI ENAMTVHAAFGGSTNPLLHIPA IAHQAGCHIPTVDDWIRINKRV PRLVSVLPNGPVYHPTVNAFM AGGVPEVMLHLRSLGLLHEDV MTVTGSTLKENLDWWEHSERR QRFKQLLLDQEQINADEVIMSP QQAARGLTSTITFPWQYAWIL HPDLDPETLLKLLISLRFFWAET PVGKNRITQMTNARHRTGFQG VTIHHTGVQFMGFITRKDSANS GVKQWTLFQQTHRFRHHIQR FARFQHFLPGFNNGRQRLDVAS VFMEFTTGLMSLDTALNEMLS RVTPLTAQETLPLVQCFGRILAS DVSPLDVPGFDNSAMDGAV RLADIASGQPLPVAGKSFAGQP YHGEWPAGTCIRIMTGAPVPEG CEAVVMQEQTQMDNGVRFT AEVRSGQNIRRRGEDISAGAVV
9257	39625	B	9316	1	2577	
9258	39626	A	9317	2	772	AFGASLAQDKPNTGTG*KSPSH PALLRVLDIGKICHLARKVGAVS VVDNPFIRPALQNPLALRADLV LHCTKYLNHSDVVAGVVIA KDPDVVTELAWWANNIGVTG GAFDSYLLLRGLRTLVPMELE QRNAQAIVKYLQTQPLVKKLY HPSLPENQGHEIAARQKGFGA MLSFELDGDEQTLRRFLGGLSL FTLAESLGGVEKLISHAATMTH AGMAPKARAAAGISETLLRIST GIENGENLIADLENGFPA
9259	39627	B	9318	68	1895	
9260	39628	A	9319	1	636	
9261	39629	A	9320	1	942	

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9262	39630	A	9321	479	969	MPSTSQ*I/ISED FVELNAARYR DEEIQRTPQRYSSRRPTQRHIIV RFTKVEIKEKMLRAAREKGGV AHKRKPIRLTADLSAETLQARR EWGPTFNILKEKNFQPRISYPTK LSFISEGETKSFTDKQMLRDFGT TRPPLKELLKEALNMERNNRY QPQQKHTKL
9263	39631	A	9322	1	652	MGKKQSRKTGNSKNQSASPPP KERSSSRAMEQSWTENDFDEL REEGFRRSNYSELKEEVQTHGK EDKNLEKKLDEWLARIINAES LKDLMEKTKARELCDECTSL SRFDQLEDGVSVMEDMNEMK SEGKFREKRIKRNEQSLQEIWD YVKKPNLCLIGVPESDRKNGTK LENTLQDIIQENFPNLSGQANI HIQEIQRTTPQRYSLRRATP\RH LIVRFTKVEMKEK\MLRAAREK GRVTHKGKPIRLTTADLSAETL QAR/TEWGPIFNILKEKNF\QPR ISYPAKLSFISEGEIKYFIDKQML RDFCHHQGLPLKELLERKALK HGKGNQ*PPPKERSSSRAMEQ SWTENDFDELREEGFRRSNYSE LKEEVQTHGKEDKNLEKKLDE WLARIINAESLKDLMEKTKA RELCDCTSLSSRFDQLEDGVS VMEDMNEMKSEGKFREKRIK RNEQSLQEIWDYVKKPNLCLIG VPESDRKNGTKLENTLQDIIQE NFPNLSGQANIHIQEIPENATKIL
9264	39632	A	9323	403	410	VFLIRWGGKPLKRKLYFLHCSI TQALV*ACQGYLG*IVGAKNI KYIDFFITASRYLRMLAQVFE*I LLLREVTRYS
9265	39633	A	9324	174	1252	

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9266	39634	A	9326	1	1049	MHRSDMSCPDKVDILDTTAFRI AINEVKHSLTSVTVTKVLDMF ISRSSLFPIDDDGLDDGHSDQVG VLNSPTCYSAHQNGERIERFSR KVFVGGGLPPDIDEDEITASFRF GPLVVDWPHKAESKSYFPPKG YAFLLFQEESVQALIDACIEED GK\LYLCVS*PLLSKDKPSSKYV PWNLSDSDFVMDGSQPLDPRK TIFVGGVPRPLRAVELAMIMDR LYGGVCYAGIDTDPELKYPKA PGRVAFSNQQSYIAAISARFVQ LQHGDIDKRVEVKPYVLDDQM CDECQGARGCGKFAPFFCANV TCLQYYCEFCWANIHSRAGRE VHIPLVTESAVAAPRIHIPWT
9267	39635	A	9327	2	126	
9268	39636	A	9328	1	1327	IASNSWNASSSPGEAREDGPEG LDKGLDND AEGVWSPDIEQSF QEALAIYPPCGRRKIILSDEGKM YGRNELIARYIKLRTGKTRTRK QVSSHIQVLARKKVREYQVGIK AMNLDQVSKDKALQSMASMS SAQIVSASVLQNKFSPPSPLPQA VFSTSSRFWSSPPLLGQQPGPSQ DIKPFAQPA YPIQPPLPPTLSSYE PLAPLPSAAASVPVWQDRTIAS SRLRLLEYS AFMEVQRDP*TRT SKHLFVHIRHTDRNPRRFFRTPP LGP\VDVR\QIYDPNFPEKKGGL KELYEKGPPNAF\FLVKFWADL NSTIQEGPGA FYGVSSQYSSAD SMTISVSTKVCSFGKQVVEKVE TEYARLENGRFVYRIHRSPMCE YMINFIHKLKHLPEKYMMSV LENFTILQVVTSRDSQETLLVIA FVFEVSTSEHGAQH HVYKLVK
9269	39637	A	9329	2	339	
9270	39638	A	9330	1505	1876	TYGCASPSRKPRV MPLVTAQVP ITALRVNSSIPAQSAVETTSNR PPTTGVP AFRPVRAAV*AVIS PQ ISADPTTGGA*LISAIPSQSVRH GSYSRRLML*RLDSEILLSSQPL TPVKHQRR
9271	39639	A	9331	1	1710	
9272	39640	A	9332	1	1191	

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9273	39641	A	9333	838	1365	STETLSPLPATPGEVTLRHLDV VSAEQQMFSGLVEKIQVTGSEG ELGIYPGHAPLLTAIKPGMIRIV KQHGHEEFIYLSGGILEVQPGN VTVLADTAIRGQDLDEARAME AKRKAEEHISSSHGDVDYAQAS AELAKAIAQLRVIELTKKAM*H RLEKHKSQSGNRLAFFCACDPS
9274	39642	A	9334	3	601	MLSAVGYQP/TLAEEMGVLQE RIPSTKTGSITSVQAVYVPADDL TDPSPATTFAHLDATVVLRSRQI ASLGIYPAVDPLDSTSRQLDPL VVGQEHYDTARGGQFILARYQ ELESLLVAILGMNDLSEEDKL VV ARARKIQRFLSQPFFVAEVFTGS PGKYVSLKDTIRGFKGIMEGEY DHLPEQAFYMGVSIEEAVEKA
9275	39643	B	9335	681	1071	
9276	39644	A	9336	203	2189	VASSARRGLPVHGPAPLQGGPN SQDRL/ESGTNRCLGRPLVKG GKGGRFPSARLIQTVKKGGTPS RDHANIEPSGY\SVSAGVGE\RT KGSVFAHEMPDCNVIDKVSLV YGQMTPEPPGNCMRVALSGLTM AEKFRDEGRDVLLFVDNIYRYA LAG*ERFATVGR*ASN/AVGIQP TLAEKMGVLQERITSTKTGSITS VQAVYVPANDLTDPSPATTFA HLDATVVLRSRQIASLGIYPAVD PLDSTSRQLDPLVVGQEHYDTA RGG*SILQRFQELKDFMALP/G LSDELSEEDKL VVARARKIQR LSQPFFVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMGDMAMTYHLDVVSAEQQ MFSGLVEKIQVTGSEGELGIYS GHAPLLTAIKPGMIRIVKQHG EEFIYLSGGILEVQPGNVTVLAD TAIRGQDLDEARAMEAKRASG KVKPSIMQSLTPEKIAAILPLQF FPQPADFTGPYVMLTSRRNNRA LSRCDDQTLMPGLAIRGIRHRH QQAGVRILLNNAIEHVVDGEK VELTLQSGDTLQADVVIYGIGIS ADEPLAREANLDTANGIVIDEA CRTCDPAIFAGGDVPITSSLINV VDEIHDILLTQPVATRYCIVKVI FEAVMILRDSGGAPFCNSGMAT

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9277	39645	A	9337	905	2319	SRQAQWKGV PSTFSVINYHSLQ KRTTNLTHRQLNLLSTVLYCS CPSIQKLLMLQTGQPSGVGLV DLPLKAMSRPALPNATAALPTG TRTQPPSTPLLTRLPSHRLLLH SGF*AAALLGVSEMTIRDLNN HSAPVLLGGYIVLEPRSASHY LLSDQKSRLVEEKRAAKLAA TLVEPDQTLFFDCGTTTPWIIEA IDNEIPFTAVCYSLNTFLALKEK PHCRAFFPCGATPFSNPSIFSKRV NNFCRDIAFYYSAGVHVS KGV TCFNLKRWPVKQWAMSMAQK HVLVVDHSHKFGVGPVCMGDL KRFDIVVRECCPEDEYVKYAQT QRIKPDKVS RHPVIIRLREPGLE PVMEFHHPVLPQRTTESAVVHI AHTRKSWRPEHSAPVLIQTSPV ERGPQYIQC YQLSLTSEENNQP DTQTTTKPAQYSSILFLSKYPKV IVDAPDRSTQRGWSSGLATQSN EQACTTKCNSTANWHQNTTT FNSTANPSTFKPPTS AALRVLSL WTGNHCDWCFIRYWRLTPNW QRFRRVGRTERATTHNRLQAF GGHTQGLSPGPRRWLHEQRFP TSDTGGHTADDFRKLDP CIQGP YGSHRHSVKSEVNFKEKRYAF APAASFRYTVLIRFCAPPNTGRF LLTGTPMLSYRHSFHAGNHA DVLKHTVQSLIIESLKEKDKPFL YLDTHAGAGRYQLGSEHAERT
9278	39646	A	9338	98	596	YSGIIMAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIIL EPAGRTTAPTIAPAALANRHS PESAPLMLVLATDHVIANEDAV RAPVK\NAIPYPKKGKLVTFGIG LDGRVPRYNM
9279	39647	A	9339	2	437	LECPGRSTANCSPRARATSLLL LTHVHGSRDRAQEMVDLLAQ YEQHGLQLNSRELDPHLPYLE YLAQLPQSEAVEGLKDIAPIAL LSARLQQRESRYAVLFDLLKL ANTAIDSDKVAEKIA/VRSAR*Y AAGAGCCLGRRAG
9280	39648	A	9340	152	334	HLSPQYGSIPRVISRMGGKLIIM DHFHYGRDSILLSME*TLALDA NLQFLYVVLPPNYL
9281	39649	B	9341	1	1401	

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9282	39650	A	9342	86	2063	
9283	39651	B	9343	1	885	
9284	39652	A	9344	1	101	MDDNITYTTFICNPLNLSPPRR MLIITGPNMGGKSTYMRQTALI ALMAYIGSYVPAQKVEIGPIDRI FTRVGAADDLASGRSTFMVEM TETANILHNATEYSLVLMDEIG RGTSTYDGLSLAWACAENLAN KIKALTLFATHYFELTQLPEKM EGVANVHLEDALEHGDMAFM HSVQDGAASKSYGLAVAALAG VPKEVIKRARQKLRELESISPA AATQVDGTQMSLLSVPEETSPA VEALENLDPSLTPRQALEWIY RLKSLGKTMPTSTRYQKINAAH YRHIWVVGDIHGEYQLLQSRL HQLSFFPKIDLLISVGDNIDRGP ESLDVLRLLNQPWFSTSVKGNH EAMALEAFETGDGNMWLASG GDWFFDLNDSEHQEAIDLLKLF HHLPHIIEITNDNIYAITTCVGN ARRAHAVHFCGDVARLLTCQI NIYRGQFRRLPRTFHRRLTKL RDLILRLSAGNLQCCPDRAWRD NIHPNTFLRDLFCQATAVVQNR RLRSRIGDRFLGAVERRFNDL PSSPVEWLTONGSCYRANETRO FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAEAFEHYNEWHPHRAN PITYQAVCANHYRTLNGTMT NTG*QYNVYHIYLPQAESVAA APHVDHHRSEHGR
9285	39653	A	9345	1062	1179	PRFVPILAPYAPVRSVCLR*V*T DLPEYGHILFQPADR
9286	39654	B	9346	1	2439	
9287	39655	A	9347	136	629	RSVTPVTDIVKLLFTRLRLPGY TKSIE*TNITFQCAIAAA*KNSVS TPRGGGTGTNGQALNQGIIVD MSRHMNRHIEINPEEGWVRVEA GVIKQDLNQYLKPFYFFAPEL STSNRATLGGMINTDASGQGS/ LGVRAVLLGGDILDTPLPVEL AETLGKSAE
9288	39656	B	9348	1	4653	
9289	39657	C	9349	584	819	

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9290	39658	A	9350	1	765	MQEWGRYTILSGCCNSALKGD VCLLYGFRVAGRRQASELQELT IGYRAQKNRVSSWCYCHFRQM AKAQHIKGFNLRLRKTAKK*GF QLVLLPFSANGK\AQHIKGFNL RLRKTAKKTRDFLTRMPKLGM TMVGVDPALVLCYRDEYKLAL GEERGEFNVLLANEWLASALES QPVATVSGESWYFFGHCTEVT ALPGAPAQWAAIFARFGAKLE NVSVGCCGMAGTYGHEAKNH ENSLGIYELSWHQAMQRLPRN RCLATGYSCRSQVKRVEGTGV RHPVQALLEIHK
9291	39659	A	9351	1	1710	
9292	39660	A	9352	1377	1712	IFRASLNQLLFCGLLAGRNHRQ RSVRALSQRKMVPTDRK*RCA RRAAR*PSARVL*SGE*TDRQH AD*PTIR*RRSWYLRPAVYASV RQSDRLYSDEYHW*PVRLQRY VRR
9293	39661	A	9353	203	1293	VASSARRGLPVHGPAPLQGPGN SQDRL/ESGTNRCLRGPLVKG GKGGRFPSARLIQTVKKGGTPS RDHAIIEPSGY\SVSAGVGEARTR EGNDFYHEMTDSNVIDKVSLV YGQMNEPPGNRLRVALTGLTM AEKFRDEGRDVLLFVDNIYRYT LAG*ERFATVGR*ASN/AVGYQ PTLAEEMGVLQERITSTKTGSIT SVQAVYVPADDLTDPSATTFA HLDATVVLSRQIASLGIYPVD PLDSTTRQLDPLVVGQEHYHTA RGG*SI\LRQFQELKDFMALP/G LSDELSEEDKLVVARARKIQRF LSQPFFVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMVGSIEEAVEKAKKL
9294	39662	B	9354	1	505	
9295	39663	A	9355	604	789	TMVASGSRMTST*SRGSVNG CRTILRWKRHSSPLKIKRKQKS L*TMPSF*RLPAENSLFEI

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9296	39664	A	9356	1	1514	SVAVLRE*APKIRIQLATMPELA DASSDQQDNGAEMNLVYDRD TMARLGIDVLAANSLLNNAFG QRQISTIIYQPMNQYKVVMEVD PRYTQDISALEKMFVINNEGKA IPLSYFAKWQPANAPLSVNHQG LWRAL\TIWFTLPTGKSLC\DP AAIDRAMTQLGVPSTVRGSFAG TA\QVFQETMNSQVILIIAAIAT VYIVLGILYESYVHPLTILSTLPS AGVGALLALELFNAPFSLIALIG IMLLIGIVKKNAIMMVDFALEA QR\HGNTLPQEAIFQACLLRFRP IMMTTLAALFGALPLVLSGGDG SELRQPLGITIVGGLVMSQLLT LYTTPVVYLFFDRLRLRFSRKP KQTVTDTRWQLWIVAFGFFMQ SLDTTIVNTALPSMAQSLGESPL HMHMVIVSYVLTVAVMLPASG WLADKVGVRNIFFTAIVLFTLG SLFCALSSITIRILRFVSLHMR. WQFRDLTFWQMRFRNTPTITSG GSDDSLMNQSHQRSVSSI
9297	39665	A	9357	3218	3337	
9298	39666	A	9358	252	771	RRCQILLSGSLHSSWRTLPGHV *QLASAHRRPRFR*LPGLEPGEL FVHRNVANLVIHTDLNCLSVV QYAVDVLEVEHIIICGHYCGCG VQAAVENPELGLINNWLHIRD IIHGWAYGIHDGLLRDLDTAT NRETLEQRYRHGISNLKRDVHF TTGRFIQQRTRNRQLRFAQA
9299	39667	B	9359	604	831	
9300	39668	B	9360	1	1104	
9301	39669	A	9361	242	337	LTVIHGVSAKTVILSSAVPIQ*K TVRRVSRR

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9302	39670	A	9362	2208	3411	LAADHRRRNAVQRPCNGGQSV QSTDEAAGRLSHADTHPGRPA RALPGDCRPETLLRTAGVAE*T KALYTLRSEKTRERPMDKQQA SDEKHRRFHDKESDFLA/FVNL WNY/LGEQQKALSSNAFRRLCR TDYLNLYLRVREWQDIYTQLRQ VVKELGIPVNSEPAEYREIHIAL LTGLLSHIGMKDADKQEYTG RNARFSIFPGSGLFKKPPKWVM VAELVETSRLWGRIAARIDPEW VEPVAQHLIKRTYSEPHWERAQ GAVMATEKVTVYGLPIVAARK VNYSQIDPALLHDTIELGTSPAF LITRWGFGRLNLSRTSGGPRQEP RRKEIAMELVLKDAQSALTVSE TTFGRDFNEALVHQVVVAYAA GARQGTRAPKTRA AVTGGMPT LYAVGRLSRIPMDT
9303	39671	A	9363	79	559	TLSPGSINPFKEKPN*DSVPMTL/ RRFIEVRVFQQIHHRMRQPAHL W
9304	39672	A	9364	1	655	THWER/A/QGAVMATEKVTVY GFRIVAARKVNYSQIDPALCRE LFIRHALVEGDWQTRHAFFREN LKLRAEVEELEHKSRRRDILVD DETLFEFYDQRISHDVISARHFD SWWKKVSRETPDLLNFEKSMLI KEGAEKISKLDYPNFWHQGNL KLRLSYQFEPGADADGVTVHIP LPLLNQVEESGFEWQIPGL/RRE LVMPD*SCQTVTEFVPANSHSY

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9305	39673	A	9365	1	2082	MDIQEFPDLKGTTSLLEILTLTRA GIRLLPSGMCQQLPRLRVLELS HNQIEELPSLHRCQKLEEIGLQH NRIWEIGADTFSQLSSLQALDLS WNAIRSIHPEAFSTLHSLVKLDL TTSQLTTLPLAGLGGLMHLKL KGNLALSQAFSKDSFPKLRILE VPYAYQCCPYGMCASFFKASG QWEAEDLHLDDEESSKRPLGLL ARQAENHYDQDLDELQLEMED SKPTPSVQCSPTPCFPKPEYL FESWGIRLAVWAIVLLSVLCNG LVLLTVFAGGPAPLPVKFVVG AIAGANTLTGISCGLLASVDAL TFGQFSEY/GLARWETGLGCRA TGFLAVLGSEASVLLLTAAVQ CSVSVSCVRA YGKSPSLGSVRA GVLGCLALAGLAAALPLASVG EYGASPLCLPYAPPEGQPAALG FTVALVMMKLLLFSWFVGPLP YHQNWYCDLPRGDFEAVWDC AHGEATWAWPHLRKTGLLYCP VAFLSFASMLGLFPVTPEAVKS VLLVVLPLPACLNPLLYLLFNP HFRDDLRRRLRTPRRRTQGPP*PL CCGREDAGERASCDSYPQALV APSLMWISFCEAS*SWAGPLEL ETYGFPSVTLISCQQPGAPRLEG THCVEPEGNHFGNPQPSLDGEL LLRAEGSTPASGGLSGGWRLSA LWLGLWLHTCKYPSFFSSPLF PFLSPPSVNDGCF
9306	39674	B	9366	1	510	
9307	39675	A	9367	88	246	TPMRPMKSPMPTPVSRSGSSSK MG*SSASL*RSIPGLDAGKTPW PAGRSGTWA
9308	39676	A	9368	693	1041	AEGYSQCPNAREGHVDEENED SAPAAQKIP*1*ED*SPHVSQPVP EGEEECVKKQ/GRFSWNTSTS* RQT/TARKKLLADQAEARRSKT KEAHKSYEEHLQAKKEEIIKTL SKEEETKK
9309	39677	A	9369	1	1911	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9310	39678	A	9370	1	921	MWRSIFLDSRYLLSSRRKILILLI HVTFSGIRALAVPFRLPVEKMS FIFMGDVIHRMLTATQYVAPL MANFNPGYSDNSTVVYFDNGQ QIRKLIKDGLIIRKPVTVHSRAR CRKNTLARRKGRHMGIEFACFC CVFLTPALICMCAVRLLTRDP YLASGDQPLERATGEHASMHE YPGELG\QPPGLYPSSHPPGRA GTLRALSRQDTFDADTPGSRNS AYTEL*DSCVDMETDPSEGPGL GDPCE\GTPPARQGSWEDEEED YEEELTDNRNRGRNKARYCAE GWGPVLGRNKNELEGWGRGV
9311	39679	A	9371	3	740	ELFPFAAAAAAMSMLRLQKRL ASSVLRMWQRTNGLG*TPMRP M*SPMPTPRQQIPEAHQRWAD HP/LSLVTGPFPGSMPEKTPLA\ AGEGAGQHGA LGKAGRGTSQ MPGMPEGQHGLRRIEDFGAG LLQKDTGEI*RRSDRPHVFTAC YLEGEGGMLFQKQGGFFMGTL PQG*RQDKGPQRSFLADQA*RP QGLRTKESTESASEERLPGQRK EEINQRLYSKEGRRPRNKNLPL GSVHTWPLVIT
9312	39680	A	9372	1	2229	
9313	39681	A	9373	3	1560	SGPNSLKFYDWGETVPQPWPIF GLSPAFGFPLCFPRGLGETIFSSR PHIR/RNYPELQKRLNGWLSAA LKTARILTVCVAVMLLLSAWG LFD FWNWLQNGAGQKNP*NIP D/LRIRNSILFL/LSAVGWTVLA\ SLIENRLASDI\HGRPLP\SARTR TLLTLFRNALAVIISTITIMIVLS EIGVNIAPLLAGAGALGLAISFG SQT LVKDIITGVFIQFENG MNTG DLVTIGPLTGTVERMSIRSVGV RQDTGAYHIIPWSSITTFAN\FV RGIGSVGANYDVDRHEDADKA NQALRDAVEDDETRFTSESSPIL RCCQREG LGLKAVVQILLSHGR NGLPGEPASSQGLSAASSTPVF HLALQIDSAPDNIDWVEMLFNK NMVTERLQNV MVLEQCFSDSS SLYRFLTYSYLLAFNVWLLAP VTLCYDWQVGSIPLVETIWD M RNLATIFLAVVMALLSLHCLAA FKSRVTASIPGCIKAHAVENVL TTKSKTRIYPEVVVQSG LQKQK GKGSVMFIEAAGL

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9314	39682	A	9374	3	276	VRQYR/LGN/MHQQRMAEMID ARQQQAFGEAGACWGGCPKHR VMLDASGKPGNDLCAGYQRD VRHLPRYLKAMADLLAHGRPA SDIMHAHLV
9315	39683	A	9375	102	916	RSLLAIFNHW*\KRDL\GKFLVW NIKW/AFAKFCRSAGQTSGRSVI VEHNGEYACDHYVYPQYRLG NMHRQRMAEMIDSRQQAFGE DKFKQLPAQCRSCNVLKACWG GCPKHRFMLDASGKPGNLYLC AGYQRYFRHLPPYLKAMADLL AHGRPASDIMHAHKKVFKRGT ACSGFQKGGPLFRSRTGYCPTL RKKAPCPKTGLLGKKWTPQRR NSSGKSCAKRRGDPPLENRFN GSRVQRKPQWNSCTGHPENN FPNYGGTPYPQRMWPL
9316	39684	A	9376	338	1155	SIFISIGNLAANDLSPSRJARLQK ILHSYVPEEIRDGNQVRVTSWD GRKWGELEGDTYDRVLVDVPC TTDRHSLHEEENNIFKRSRKKE RQILPVLQVQLLAAGLLATKPG GHVVYSTCSLSHLQNEYVVQG AIELL\PINTASRYRWKI*LTSEG FSWTHFVSSQSCPGWGAGNTK TSLAILALCTSAKCVGWT*YPP QSLKQEYQRVYVSGCTRNWKL GPVAEMHSRSLHPVRVFLQFS AIRSRFAVLLSNCGASAWFPT SLINPYPI
9317	39685	C	9377	157	453	
9318	39686	A	9378	486	1195	ARPQQYEQVPGKAEASEWERG SSAPTGGGHAAGGAGVGGG EGSPPALHGRGARAG/GAGICM GLRQQLNR*AMDLTGAGGPAR AGAAGAVARGGGRHQGPAG GRGRGLGFAAGTAEPGAPHR PLQRALPPIRREPGERHRAPRAG AAPQCGSARPRQPRAPQSLRAG ALPEAHAQGGQPARTHPAEPGP AARRAQQLCRHWD*GRGRPG PPDALRGGAASDFRLSARTPICR
9319	39687	A	9379	10	1278	

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9320	39688	A	9380	1	1305	MECVCVKEKEREKEGKEEEE EDEAVAERGGKGERRGERGE RKREKETYTEKNRYRDTKRDR DRERKEPYEIPSSLIGHGDPKDE LDRNLALKQVKTYWVIQFSKSI EVIEKRMAVLNEQVKEAEGSS AEYKKEIEELKELLPEITEKTED AKESQTTGNVAELALKATLGG GSSVS/SIASRKPTDGASSNCV TDISHFVRKKRKPEEQSPWKDD AKKVKQELEVNNGSGDAVPSG NEVLENMEEEEAENRVESRAAV EGTVEAGATAESTAYMYDIPA MYQENTAVSKTDEVSDLIHKL AQTDLLAQERAGKRASPDGG SAEGQAQSDRQEATKQRHKQE AGDRHYDKQMLEYQGAHELY SSREKRKEKKKKPPHGRLPPTP VALHGAKRRLTLKRLFNASPN KPKGHOSTQFSVMSQAEQQPVL
9321	39689	A	9381	67	458	WDMANSGCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSAAFFC VARLQEQGVKSGMYVVIEVK VATQEGKEITCRSYLMTNYESA PPSPQYKKIICMGAKENGLPLE YQEKLLKAIEPNDYTGKGSEENE
9322	39690	A	9382	139	710	WDMANSGCKDVTGPDEESFLY FAYGSNLLTERIHLRNPSAAFFC VARLQDFKLDFGNSQGKTSQT WHGGIATIFQSPGDEVWGCVW KMNKSNNLSLDEQEGVKSGMY VVIEVKVATQEGKEITCRSYLM TNYESAPSPQYKKIICMGAKE NGLPLEYQEKLLKAIEPNDYTGK VSEEIEDIIKKGETQTL
9323	39691	A	9383	1	731	MANSGCKDVTGPDEESFLYFA YGSNLLTERIHLRNPSAAFFCV ARLQLLIESPRMSRLAKFWPRT HAVILSKTERTSFWPLKPQKWE SGSDTPYSQTRKDFKLDFGNSQ GKTSQTWGGIATIFQSPGDEV WGCVWKMNKSNNLSLDEQEG VKSGMYVVIEVKVATQEGKEIT CRSYLMTNYESAPSPQYKKIIC MGAKENG\RLKYQEKLLKAIEP NDYTGVVSEEIEDIIKKGGTTKL
9324	39692	A	9384	41	333	MFCNTDLGT/LLCTDVVARGLD IPQVNWIVHYDHPDDPKEYIHR VVPFVVDLNVNGNEGKQKKRG GGGGFDYQKIKKVEKSKIFKHI SKKSSDSRQLSH

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9325	39693	A	9385	3	1852	SKQKPMNVGLSETQNGGMSQE AVGNIKVTKSPQKSTVLTNGEA AMQSSNESK K K K K K R K M V NDAEPDTK KAKTENK GKSEEE SAETTKETENNVEKPDNDEDES EVPSLPLGLTGAFEDTSFASLCN LVNENTLKA IKEMGFTNMTEIQ HKSIRPLLEGRDLLAAAKTGSG KTLAFLIPAVELIVKLRFMPRNG TGVILSPTRELAMQTFGVLE LMTHHVHTYGLIMGGSNRS AE AQKLGNGINII VATPGRLLDH M QNTPGFMYKNLQCLVIDEADRI LDVGFEELKQIKLLPTRRQTM LFSATQTRKVEDLARISL KKEPL YVGVD DDKANATVDGLEQGY VVCPSKR FLLLFTFLKKNRKK KLMVFFSSCMSVKYHYELLNYI DLPVLA IHGKQKQNKRTTTFQ FCNADSGTLLCTDVAARGLDIP EVDWIVQYDPPDDPKEYIHRVG RTARG\NNGRGHALLILRPEELG FLRYLKQSKVPLSEFDFSWSKIS DIQ\SQLEK LIEK\NYFLHKSA\Q EAYKSYIRAYDSHSLKQIFNVN NLNLPQVALSFGFKVPPFVDLN VNSNEGKQKKRGGGGGFGYQ KTKKVEKSKIFKHISKSSDSRQ

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9326	39694	A	9386	1	2703	MAQQATLCSMKGCMRALVAQ LKSESEDLQQT VQAKREVPSK VPAAEKRESGPKQAAVNAAVQ RVQVLPD VDTLLHFATESTPDG FSCSSSLSALS LDEPFIQKDVEL RIMPPVQENDNGNETESEQPEE SNENQDKEVEKPDSEKDLLDDS DDDDIEILEECIISAMPTKSSRK AKKLAQTASKLPPP VARKPSQL PVYKLLPAQNRLQAQKHVSFT GDDVPRVYCV EGTPINFSTATS LSDLTIESPPNELATGD/GVRA/S IQSGKSHKPF RVKK/IMDQVQQ ASSTSSGANKNQ VDTKKKKPTS PVKPM PQNTEYRTRL PNNE DR VRGSFALDSPHHTPIEGTPYCF SRNDSLSSLD FDDDDVDLSREK AELRK GKESKDSEAKVTCRPEP NSSQQAASKSQASIKHPANRAQ SKPVLQKQPTFPQSSKDGPD RG AATDEKLQNF AIENTPVCFSRN SSLSSLS DIDQENNNNKESEPIK EAEPANSQGEPSRQLSQQNLTK QASLSKNASSIPRSESASKGLNQ MSGNGSNKKVELSRMSSTKS SGSESDR SERPALVRQSTFIKEA PSPTLRRKLEESASFESLSPSSRP DSPTRSQAQTPVLSPLPDMSLS THPSVQAESEKAKSEDERHVS SMPAPRQMKENQVPTKGTWR KIKESDISPTGMASQSASSGAAS GAESKPLIYQMAPPVSKTEDV
9327	39695	A	9387	2	193	QSSE*NIQGPCNVWSSR*RWER SKGRRHLSSASRPLSALSTLRFT SVSQHAAKR VVVIRPQQQ
9328	39696	A	9388	395	761	SMQKKPRPIAHRQRCRAAMAA/ GQQPQIPIT TGTGVVYPGAITM ATTPSPQMTSDCSSTASPEPS LPVIQSTYGMKTDGGS LAGNQ MINGEDEMA MYDDYEDDPKS DYSSENEAP EAVSAN
9329	39697	B	9389	1	477	

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9330	39698	A	9390	167	890	LSGARSSQGRLPWGRGDAVSTS TSRRNPRTGASDERNNHEPGKN SPYLQAQ\VRIGGKGTARRKKK VVHRTATA\DDKKLQF\SLKKL GVNH\ISGIE\EVNM\FTNQGTSG STFNNP*KVQAISWAANTFHPL PGPCWRPKPADKKWLPQPSLN PSLGAG*S*LRFKGRLARSFLPP NNP\VDGKATHLPTG\KDDDD\ KVPRSLWRILMLPKNEGKLEL RSTS*R*NLEEV\TGSRYFKIMT AF
9331	39699	A	9391	2	315	GAASLLRAGPGSSGSDP\PLSSR FVERRGALYRSPMNQENPPYP GPGTAPYPQYGWQGGPQEP KTTVYVVEDQRRDELGPSTCLT ACWTALCCCCLWDMLT
9332	39700	A	9392	263	680	LLLPA\VTSA\PLPPAGLATCPCP RLAQLGIGRAAPQKRSPRRNP EASRGRPPDG\WRAPLR\VPPT PRETEPQRRGDPGLRNPCLSQA SPGAPQFSGP\PPGSPGTRPVRA* SPPGPSWVGPGPLHLTSP\LPNRL DNGRV
9333	39701	A	9393	2	537	SGARLLLTCSETGAASLLRAGP GSSGSDP\PLSSRFVESRGALYR SPMNQENPPYPGPGTAPYPP YPPQPMGPGPIGGPYPPPQGY YPRIPTVRLAGWTSGSLLKTTV LLWVGRPKKEEMKLGTIHLPSQP AGTGLCLLLSLGTWFTLTRTRP RPFLFLASSAANLLTG\PCPHLF
9334	39702	A	9394	3	470	PKAKKEAPAPPKAEAKAKALK AKKAVLKGVHNHT\QKKKIHTP LTFQRPKSLRLRRQPKYPRKSA PRRNKLDHYAIIKFPLTTESAM KKIEDNNTLVFIVDVKANKHQI KQAVQKLYDIDVAKVNTLIRPD GEKKAYVRLAPDYDALDVAN KIGII

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9335	39703	A	9395	1	1144	MLYQVLMVDTGTRGEGAF LKYRKPACPTALGFMFPRSHGLTA DTVLVSSLSRWFLWRRLLLLLL LLLLNLPLQKAVHRKATPESAI ADCSGPRDCAPWVKFAMLELH SFKCPAGEYWSKDVCCKNCSA GTFVKAPCEIPHTQGQCEKCHP GTFTEKDNYLDACILCSTCDKG DFYGGKKTAVHEALCDNIDTRT VMEEMRALVSQCPLYMAARK AERRRPNRALLENIAMYLTHM LKIFGAIEEESPLGFPVGGPGTN LNPIENGGMDKFLTTSVLRKT HRVSNGQNSVCRSVSYWKPKC TFCSLTHITYIRYLELRLTLESTV MPYLQVLSEFREGVRKIAREKK VLEVLQLSDALR\VTSCSLGSG LKTMKPECLLF
9336	39704	A	9396	1	639	MDGDEKTSFICAVHNGIFREWK QTGTCSPIKKGQLLRVECHGK IKAQGGQMYIKAALFTRAKTW NQPKCPSMIDWIKKMVWHIY/ TCEYYTAIKKKIMSSVETWMEL EAILSKLTQEQKSKFRFTSLYSS RVFQRTQDVPYHNKLNEEADK PTTNKKGLILNRLVNTPIGRK NTGKLSAIKEKLLKRPKRKHL KIYTLKNDSDLIKDKNI
9337	39705	B	9397	1	825	
9338	39706	A	9398	2	285	HEENRPFVCEH/AGCGKT/FAN KPSLTSDAVVH/DPGKKMKL KVKSREKRSLASHLSGYIPPK RKQGQGLSLCQNGESPNCVED KMLSAVPVLTG
9339	39707	A	9399	2003	2344	PFVGVFWLFFFSVFVFTFVPP EYYVLPAPPPHRSVFLVFGKRV VFFFPLPC/CDFRSRLTPPFVCAP PAPPPLPFVSVPCVPSLSCGDVC AADKKNNKKFLNTTRWKKKT
9340	39708	B	9400	3	113	
9341	39709	C	9401	48	182	

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9342	39710	A	9402	2	752	VWWSRRRPVKRRRLASPYS ACSGRSAGFLDNCAMCAARLA AAAAAQSVYAFSARPLAGGEP VSLGSLRGKVLLIENVASL*GTT VRDYTQMNELQRRLLGPRGLVV LGFPICNQFGHQENAKNEEILNS LKYVRPGGGIEPNF\MLFHKSE VN\GAGAHPLFAFLREALPAPS DDATALMTDPKLITWSPV/CRK DPGKIKFFLGPPGNFFFEKFLGGP CTVLP\RRYSRRF\QTIDIEPDIE ALLSQGPSCA
9343	39711	A	9403	1	1128	
9344	39712	A	9404	7	378	ARCDHPTAFVVCYRFYPWPAG HVDAAVH*YVCARATDSFIIV WRTLLKGTIIILHESSIHDNFNLT SQKLWAFVPNKAPRTSGIICWP EIQSAFQGGGNLYFTIPIVDRNS TNYVLRQVRLLGN
9345	39713	A	9405	318	616	DPAGFPGCWKPLFYDLHYRSQ LHQLCLQAGRTPGQFGHQHRF WWQFCT*ELPSALQPLPEGNLV SCNEQSFGAPATGTNPGEVHP AALGTWLYLLPPC
9346	39714	A	9406	1	145	MEYYAVIKKDEFMSFAGTWM KLETHLSKLTQE\QKPTPLMFSL ISGS

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9347	39715	A	9407	1	2052	MVLVVVAVVVVVLVVAVIVV VVVVVAAVVVGAVVVVVVVV MVVVVVVVVVEEDNQHKGTGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNPNNMTK QVSLTPPKITLAHQWQTKKK YLIYLKKHSGVKNIPRNPTYEG CEGPFQGELOTTAQQNKGGHK QTEDHSMMLMDRKNQYCENGH TAQAVPNPYTLLSQIPEDAEWF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGFR NSPHLFGQALAQDLSQFSYLDL LVLRYMDDLLATHSETLCHQ ATQALLNFLATCGYKVSCKPA QLCSQQVKYLGLKLSKGTRTSL EERIQLGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPEAEVAF QALKKALTHAPVLSLPVGGQNF LYVTEKITGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPLEMLTEGPLAFELA MATARAELSLAIHHCLPPPPQ TRCWLPRLRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPRS EKTRLATILEAACCHFGSGPPPS WELWEQGPVTVQTHILRSHL
9348	39716	A	9408	2	350	YKVSCKPAQLCSQQVKYLWLK LSKGTRALSEERIQLAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9349	39717	A	9409	1	749	MNQSDQEMTGAFVHMKSYSYG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNP HLFGQALAQDLSQFSYLDLVL RYMDDLLAAYSETLCHQATE ALLNFLATCGYKVSCKPAQLCS QQVKYLGLKLSKGTRDLTTFLP VNEEKIE/P*LSTSNCSKLRCRSG TSRGSGLG
9350	39718	A	9410	118	174	
9351	39719	A	9411	577	3018	

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9352	39720	A	9412	310	1964	TFRLTEPTQMRRNQKTNP TKQGSSIPPQKNHTSSPAMDPN QEEIPDLPEKNSGVNKIPRNP YEGCEGPFQGELOTTAQQNK GHKQTEDHSMLMDRKNQYCE NGHTAQAVPNPYTLLSQIPEDA EWFTVLDPKHAVFCIPVHPDSQ FLFAFEDPSNPMSQLIWTVLPQ GFRNSPHLFGQALAQDLSQFSY LDTLVRLYMDDLTHATHSETLC HQATQALLNFLATCGYKVS KAQLCSQQVKYLGLKLSKGR TLSEERIQPILGYPHPKTLKQ AFLGITGFCQIWIPSILTAKGDL WLSDNHLLKYQVLLLEGPV LRTCATLNPAFLPDNEEKIEH NCQQVIAQTYATRGDLLEVPLT DPDLNLYTDGSSFVQKGLQKA GYAVVSDNGILESNPFTPGTST QLAELVALTWALEFGEGKRVN INTGSKYAYLVLHAHASIW EFLTSEGTPIKHQEAIRRL QKPEEVAVLHCWGHGPKGKER IEGNCQADIEAKRASRQDP MLIERHLVWGNPLWETNPQYS
9353	39721	A	9413	3	370	RCCPCPRVHHMHISARAEIRPP RPPPFLLLLVFLFQTGPCSHPGC SPPPAHPCSSWPQWPG/CSSPV SVLLAKPAACLIAAV LFAKPCRTASNWAHRQVTL WSELSSCFWPE
9354	39722	A	9414	191	1375	EWPEGGGRYSSVPSAVHHART CLAAELSGTSRQEPALPPETG VATAEAESNQPAISKVNGQ GAPLQR/RSPRLSPSPGAAQVPA LPMQDMSEGSSSPPGGHIWL ASLTPCSLALWNSCCQSPGSQP RGRDEGDCLVRATEPSATGPD RRTRLCSISASLVVRNTDPGIS DRRPGISDRRPGTSDRRPGTSDR RPGISDRRPGTSDRRPGTSDRRP GTSDRRPGTSDRRPGISDRRPGT SDRRPGISDRRPGTSDRRPGISD RRPGTSDRRPGTSDRRPGISRLP RDWIPAAAASRENSNSADARN RCSSPSRKQCQTPTSHMRGSAG SVGSSAGHTAGGTGLPTPSRCS QALQVFPAVLGKRGLSWERS LKQRDIRGPDFSSTALI
9355	39723	A	9415	3	523	

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9356	39724	A	9416	1	846	MLCDFQDGSTSRHVNPSNNPS PQPWSEDQGGASATVPCAHSV MHRLKKFTIEYLVMKFLKAVS HAIQMEMLAPKGPSPEDASV KEENICRAFSDALLYKIEDIDNK DWNNPQLCSDY/VKD NAYTSF QIQEMETVLKELKFEVGGPLPL HFLRQASKAGKADVEQHTLAK YLMELTLIDYDMMHYHPSKAA TAASCLSQKVLGQGKWNLKQQ CYTGYTQNEVLEVMQHVAKN VLKVNENLTKFIAIKNKYASNK FLKISMIPQLNSKA IKDLAFLM GGG
9357	39725	A	9417	72	1340	CPPFSVRVPPWAGLALLPSPSL MALLRRPTVSSDLENIDTGVNS KVKSHVTIRRTVLEEIGNRVTT RAAQVAKKAQNTKVPVQPTKT TNVKNQLKPTASVKPVQMEKL APKGPSPTPEDVSMKEENLCQA FSDALLCKIEDIDNEDWENPQL CSDYVKDIYQYLRQLEVLSIN PHFLDGRDINGRMRAILVDWL VQVHSKFRLLQETLYMCVGIM DRFLQVQPVSRKKLQLVGITAL LLAPKYEKMFSPNIEDFVYITD NAYPS\SQIREMETLILKELKFEL GRPLPLHFLRRASKAGEVDVEQ HTLAKY\LMELTLIDYDMVHY HP\SKVAAAASCLSQKVLGQGK WNLKQQYYHKDTQNEVLEV MQHMAKNVVKVNENLTKFIAI KNKYASSKLLKISMIPQLNSKA VKDLASPLIGRS

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9358	39726	A	9418	1	1875	EPEKQQLYDIPASPKAGLHPP DSQASGQGVPLISVTTLRRGGY STLPNPQKSEWIYDTPVSPGKA SVRNTPLTSFAEESRPHALPSSS STFYNPSPGRSRSLTPQLNNNVP MQKKLSLPEIPSYGFLVPRGTFP LDEDVSYKVPSSFLIPRVEQQN TKPNIYDIPKATSSVSQAGKELE KAKEVSENSAGQIPHGSPDGQ/ RSPSPDPRLSGSSSDSRASIVSS CSTTSTDDSSSSSSEESAKELSL DLDVAKETVMALQHKVVSSVA GLMLFVSRKWRFRDYLEANID AIHRSTDHIEESVREFLDFARGV HGTACNLTDNLQNRIRDQMQ TISNSYRILLETKESLDNRNWPL EVLVTDSVQNSPDDLRFVMV ARMLPEDIKRFASIVIANGRLLF KRNCEKEETVQLTPNAEFKCEK YIQQPQRETESHQKSTPSTKQRE DEHSSELLKKNRANICGQTLPN LEEKDKPILEQRLDENKDLGTM NPGPLIPQSSQQTPERKPRLSE HCRLYFGALFKAISAFHGLSSS QPAEITQSKLVIMVGQKLVD LCMETQERDVRNEILRGSSHL SLLKDVALATKNAVLTYPSPAA LGHLQAEAEKLEQHTRQFRGT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9359	39727	A	9419	1	2013	MGLKSWGGMGLGTAFGKGLR GEKAWCVSGRYHWRYSQWSG TLTQGPVWVRVHSLSDRVYDV PTQHRGPVVLKEPEKQQLYDIP ASPKKAGLHPPDSQASGQGVPL ISVTTLRRGGYSTLPNPQKSEWI YDTPVSPGKASVRNTPLTSFAE ESRPHALPSSSSTFYNNPPSGRSR SLTPQLNNVPMQKKLSLPEIPS YGFLVPRGTFLDEDVSYKVPS SFLIPRVEQQNTKPNIIDIPKAT SSVSQAGKELEKAKEVSENSAG QIPHGSPDGQ/RSPSPEDRLSG SSSDSRASIVSSCSTTSTDDSSSS SSEESAKELSLDLVAKETVMA LQHKVVSSVAGLMLFVSRKWR FRDYLEANIDAIHRSTDHIEESV REFLDFARGVHGTACNLTDNL QNRIRDQMOTISNSYRILLETKE SLDNRNWPLEVLTDSVQNSP DDLRFVMVARMLPEDIKRFAS IVIANGRLLFKRNCCEETVQL TPNAEFKCEKYIQPPQRETESH QKSTPSTKQREDEHSSELLKKN RANICGQNPGLIPQPSSQQTPE RKPRLSEHCRLYFGALFKAISAF HGSLSSSQPAEITQSKLVIMVG QKLVDTLCMETQERDVRNEILR GSSHLCSLLKDVALATKNAVLT YPSAALGHLQAEAEKLEQHTR
9360	39728	A	9420	3	645	DFHTN/K/RVCEEIPIILSKKLHN RRAGCVTHLTNQIRGPVRGISI KLQEEEKERRDNYVPKVSALD QEIEVDPDTKEMLKLLDFGSL NLQQQKATRVYAVVQISAPMF LLWALPLSVAPLITDFKMFVTT SYLISLFLIINSSANPIIYFFVGS L RKKRLKESLRVILQRALADKPE VGRNKKAAAGIDPMEQPHSTQH VENLLPREHRVDVET
9361	39729	A	9421	312	694	LTPAPRKNVTEKYVMCLGNDF HTN/K/RVCEEIPIILSKKLHNRR AGCVTHLTNQIRGPVRGISIKL QEEEEKERRDNYVPKVSALDQE IEVDPDTKEMLKLLDFGSLSNL QVTRPTVGMNFKMPRGAV
9362	39730	A	9422	3	383	

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9363	39731	A	9423	304	1862	RMLEATSKMRKGVPSIIQ/SSQ GNSYTLIPSAKSDNLSSSHSEI SSRSSIVSNCSVDSMSAALQDE RCSSQALAVPESTGALEKTEHA SGIGDHSQHGPWTLLKPSLIK CLAVSSSVSNEEISQEHIIIEAAD SGSWEVGTSCSSSSHDNFQSLP NPKSWDFLNSYRHTHLDDPIAE VEPTDSEPYSCKSCSRTCQC KGSLEKSWTSSSSLSDTYEPN YGTVKRRVLESTPAESSEGLDP KDATDPVYKTVTSSTEKGLIVY CVTSPKKDDRYREPPPTPPGYL GISLADLKEGPHTHLKPPDYSV AVQRSKMMHNSLSRLPPASLSS NLVACVPSKIVTQPQRHNLQPF HPKLGDVTDADSEADATLGNK CKLLYMSDVNPVPAVKDVLV QKYTSFNFFHPQEALDRRREEL ALPEGASGEACLSTRSLKRSGV QALAQQTHSRNFLPEKQPFSAQ AAGILHGSINHNTGRCCLLEGT KMMTGVLRYALLCIAYSRDLI VDEQIMNGLRKAI

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9364	39732	A	9424	1	1335	MTFKNPKYPFVSNLAKQKGMS VIKVNGLQSQSNPNRTTNGPDP SGMKVWVSPQGKNPQPTVEVLA EGKGNTIEWVVEEDTRNFGFGI QKHTDIGIKYDSSTGIYDLDFN VVLDRRASEEGITLTAALAADR ETPSENCLPSPVNPTAQGEEGIH PDPIIVLEQEDPTTAPHPQRLCQ QQQCQRPLCRLQPVWPHIVDLT PLTEIGSEEPVGELNFKHIRFEV SEDNMTFDASDQGPFFENYWQ LVLSATPGDVTWNGALGLHTP KSSSPDTCASQAQASQCWELSPG GRRIGTLLLPQESGASWLP PGV TSSLAAVRVIMNCGDKATPRN GGVRTLKKLSSLPLSKAGGKVL YGEINPEQEVQASLSFAALLES YGIFMETEFLVACLISQGGQLR NQDFSSSIYSLAPGLDPSSVRA GAQRTAPPWGISPRSC/PVIKVN GKLQSQSNPNRTTNGPDPSGMK VWVSPQGKNPQPTVEVLAEGKG NTEWVVEEDTRNFGFGIQKHT DIGIKYDSSTGIYDLDFNVVLDR RASEEGITLTAALAADRETPSE NCLPSPVNPTAQGEEGIHDPDII VLEQEDPTTAPHPQRLCQQQC QRPLCRLQPVWPHIVDLTPLTEI GSEEPVGELNFKHIRFEVSEDN MTFDASDQGPFFENYWQLVLS ATPGDVTWNGALGLHTPKSSSP DTCASQAQASQCWELSPGGRRIG
9365	39733	A	9425	56	235	
9366	39734	A	9426	1	515	
9367	39735	A	9427	138	830	AWAQLPSALGSTRVSPPPSARS QPPWRRRHK/CLLETEPLQGT EDAVASADFSSMLSEEEKEELK AELVQLEDEITTLRQVLSAKER HLVEIKQKLG MNLMNELK\QNF SKSWH\DMQTTTAYKRTHDTL SHAGQKATAAFSNVGT AISKKF GDMSYSIRHSISMPAMRNSPTF KSFEERVETT VTS LKTKVGGTN PNGGSFEEVLSSTAHASQA SLA GGSRRTKEEELQC
9368	39736	A	9428	3	381	LLETEPLQGTDEDALASADFSS MLYEEEEKVKAELVQLEDEIT TLRQVLSAKERHLVEIKQKLG MNLMNELK\NFSKSWHDMQT TTAYKKTHETLSHAGQKATAVA FSNVGT AISKKFGDMRRK

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9369	39737	B	9429	79	426	
9370	39738	A	9430	1	570	
9371	39739	A	9431	1	1677	MLESVNVRLLEDLITGPCWEAG WNAGYAFLVVAVEDFTIGKLF DKLEGTKLCLKNALPRVITQTE SHRQRLQEAANWHSWLKIV QKMKAVYHILNMCNIDVTQQC VIAEIWFPVADATRIKRALEQG MELSGSSMAPIMTTVQSKTAPP TFNRTNKFTAGFQNIVDAYGV GSYREINPAPYTIITFPFLFAVMF GDCGHGTVMLLAALWMILNER RLLSQKTDNEIWNTFFHGRYLI LLMGIFSIYTGLIYNDCFSKSLNI FGSSWSVQPMFRNGTWKTGTH DPHLAVLFKMGHVEGRDCVLR IVLAKIGYRNGFLRKIWNLASN KLTFLNSYKMKMSVILGIVQM VFGVILSLFNHIYFRRTLNIILQF IPEMIFILCLFGYLVFMIHFKWCC FDVHVSQHAPSILIHFINMFLFN YSDSSNAPLYKHQFNFGDVFV HQAHTIEYCLGCISNTASYLRL WALSLAHAQLSEVLWTMVMN SGLQTRGWGGIVGVFIIFAVFA VLTVAILLIMEGLSAFLHALRL HWVEFQNKFYVVDGYKFSPFS FKHILDGTAE
9372	39740	A	9432	3	933	GTWPVSSAASIYAGTGGLG\SQI SMSCSTSFWGGLGSGGLATEM AGGLAEMGGIQNEKETMQSLN DHLDYLDVRNLETENWRLES KIQEYLEKRPHVRDWGHYFKTI KELRAQIFANTVDNVHILQIDN AQSSMRQELAMRQSVESNIHG LCKVIDDTNVTLQLETEMGAL KEELLLMKKNHEEEVKGLQVQ IANSGLA VEVDAPKSQVLAKM EQLNRILLYLESKLAQNWAEG QRKVQEYKDLLNIRVKLEAIEA TYRRLLEDSEGLNLGDALDSSN SMQTIQKTTTRQIVDSKVVSEIS DTKVLRH
9373	39741	A	9433	3	698	

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9374	39742	A	9434	2	479	PRVRESTTVVTTQSAEVGAAET TLTELRRTVQSLEIDLDSMRNL KASLENSLREVEARYALQMEQ LNGILLHLESELAQTRAEGQRQ AQEYEALLNIKVKLEAEIA/TTY RRLLEDGEDFNLDALDSSNS MQTIQKTTTTRIVDGKVVSETN DTKVLRH
9375	39743	A	9435	1	618	AEHLLKPLPADKQIETGPFLEA VSHLPPFFDCLGSPVFTPIKADIS GNITKIKAGYDTN/QPRFRTLKT ILEGEKEMYGAKGPKVGATLA LMWLKRGLRFIQVFLQSIDGE RDENHPNLIRVNATKAYEMAL KKYHGWIVQKIFQAALYAAPY KSDFLKALSKGQNVTEEECLEK IRLFLVNYTATIDVIYEMYTQM NAELNYKV
9376	39744	A	9436	1	1569	
9377	39745	A	9437	211	368	ERNLSQLQWDNPTPPATRRPS HSSLRGEHAQ*GLLSFFERLSCT LSRFMPI
9378	39746	A	9438	1435	1703	
9379	39747	A	9439	1	913	MKNYNCWRRVFLFVVTPIMG HIKHRQGPKNKQQRGQKRDEQR MRKENRGHRKGCTWCGGGTE GTGWGKYEKSEVERGLVRYER KRRAYSGIQYAAAAALPTVYN QNLLTQQSIGAAGSQKEACAY AVMSLASRAPVYRSFDSEKAG DREVQRTMLELLNQLDGFQPN TQVKVIAATNRVDILDPALLRS GRIDRKIEFMPNNEEARVARIMQ IHSRKMNVSDTTLVALQMAL NVYNGKQAPYASCHIFELYQE DNGFLLHTGFVSYPVSAQ AAIQSMNGFQIGMKRLKVQLK RSKNDSKPY
9380	39748	A	9440	3	438	
9381	39749	A	9441	1	247	AIAAIDSDSSDGSRQSEWKFWK GFTILDAIKNIYDSWEEVKMST LTEVWKKLIPTLMDSFEDFIEE VTVDVWECTVLQTQI

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9382	39750	A	9442	93	726	TSLGLSLCPRQCKRCPHLSLQQ EEDPANLEVDHDFQDKVWP HLALRVP\AFETLKVQSAWAGY \YDYNTFDQNGVVGPHPLVVN MYFATAFSGHGLQQA\GIGRA VAEMVLKGRFQTIDLSPFLFTR FYLGE\EKIQ\ENNIILRHVCSGIG LPLACNPWLCLKSLVCWLPFP KVLCPGLLSPSPVSSSSQAGHW HPIWAGQGTGSEAEQG
9383	39751	A	9443	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIQA\FREPRLLV\TDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS\DPREE KEEQAAAEKAVTKEEFQGEWT APAPEFTATQPEVADLSEGVQV PSVPIQQFPTDDWSTQPATENW SAAPTAQATEWKMQQSTILE AESSPHQTNP\LPAPWSRTSQPPE
9384	39752	A	9444	1	1575	
9385	39753	A	9445	1	2325	
9386	39754	A	9446	1	1149	
9387	39755	A	9447	85	1041	REIVTMSGALDVLQMKEEDVL KFLAA\GTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWE\KL LLAA\RAIVAIENPADVSVISSQE ILGQKGCAESFAAATGATPICW ARFTPWNLSLTQIQGSPSGEPR AFLLVTDPPQLNHQPSHGGNL NV*PTLPLALVNP\SP\RRYVD IAIPCNNQGSSLQWGLMWWW\M LASGSFCAMRG\TISREHP\WEV\ MP\DLFYRDPEEIEKEEPGCCCL RSQVTKEEFQGEWTAPAPEFT\ VTQPEVADWSEGVQ\VPS\PIQ QFP\TTEDWSAQPAT\EDWSAAP TAQATEWVGATT\DWS

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9388	39756	A	9448	1	762	MGKVKVGVNGFGCIGRLVIRT ACNSGKVDIIAINDPFIDLSYMV YMFQYDPTHGKFHGTVKAENG KLIVINGNPITIFQEPDPSKIKWG DAGTEYVMESTGIFTT MENAG AHLQWGA KR PQGLQNIIPATT/ GAAKAVRKVIPELNGKLTGMA LRVPTANVSVDLT YHLEKPA KYDDIKKVVKQASEGPLKGILG YTGHQVVSSDFNSDTHSSTFNA GAGTALNDHFVKLISWYDNEF GYNNRVVDLMAHMASKE
9389	39757	A	9449	93	660	DTMGKVKVGVNGFGRIGRLVT RA\AFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFHGTVK AENGKLIVINGNPITIFQERDPSK IKWGDAG\AEYVVVESTG\VF TTMEK/ALGAHLQGGSQKGHSSL APSCLMPPMFVMGVN\HEKDD NSLK\IISN\ASCTTNCLAPLAK\ VIHDTLVS GEGLKDHRLP
9390	39758	C	9450	554	715	
9391	39759	A	9451	193	472	RRVGVWRRPQFQQSRC SHGPN QGSAPWLNPTGAFGKETDLL\ DDSLVSIFGKRRL\KRFSMVG/D RMASKNALNAQPDGPGLTCSL APNIISQL
9392	39760	A	9452	1	864	GTRMGLAGVCALRRSAGYILV GGAG/WSVLAPRAAAARRCSE GEWASGGVRSFSRAAAAMAPI KVGDAIPAVEV\FEGEPGNKVK PGKSLFKGKGVLFVPGGPPP LGCS\KTHLAKGLWEQG*RLCK AKGKSRVVALF*VVNDALCDW AQWGQAPQGGKARFGLLAESP LGPF GK\ETDLL\LDESLVSHLL GIRRLK\RFS\IMVVQDGIV\KAL\ NVEPDGTGLHLAAWAPNIIFTA LEALGPDLLPLPPPYSSPCPALC LGPLQFGNVGQISAINTLWVLR PKQKKKKKS
9393	39761	A	9453	1	239	QCCSGGTHGNPAIGDR\MQKQI LPWAPAQMKIRFMAPPERKYS VWIAAPILASLSTSSRMWISKQE YDESGPSIVHRKCF

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9394	39762	A	9454	2	801	ASAPRAQSLAFADPPPVHTRRQ LTMDDDIAALVVDNGSGMCKA GFAGDDAPRAVFPISVGRPRHQ GVMVGMGQKDSYVGDEAQS RGILTLKYPIEHGIVTNWDDME KIWHHTFYNELRVAPEEHPVLL TEAPLNPKANREKMTQIMFETF NTPAMYVAIQAVLSLYASGRRT GIVMDSGDGVTHTVPIYEGYAL PHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIK/EE AVLRRPGLRARDGHG\ASSSSL EKSYELPDGQVITIGNERFRCPE ALFQPSFLGMESCGIHETTFNSI MKCDVDIRKDLANTVLSGGT HQFPLPCRPGC*KKITALEP\AT MKI\RIIA\PEAQSTPLWNRGAP IL\ASLVHLPKMWQDKSREYD ESGPLPFVHRK\CFQLLPGEELR
9395	39763	A	9455	3	108	
9396	39764	A	9456	1	1430	MKFLIAFFGGVHLLSLCSGKAI CKNGISKRTFEEIKEEIASCGDV AKAIINLAVYGKAQNRSYERLA LLVDTVGPRLSGSKNLEKAIQI MYQNLQQDGLKVHLEPVRIP HWERGEESAVMLEPRIHKIAIL GLGSSIGTPPEGITAEVLVVTST DELQRRASEARGKIVVYNQPYI NYSRTVQYRTQGAVEAAKVGA LASLIRSVASFISPHGTGIEYQ DGVPKIPTACITVEDAEMMSRM ASHGIKIVIQLKMGAKTYPDTD SFNTVAEITGSKYPEQVVLVSG HLDSDVDVGQAMDDGGGAFIS WEALSLIKDLGLRPKRTLRLVL WTAEQGGVGAFQYYQLHKV NISNYSLVMESDAGTFLPTGLQ FTGSEKARAIMEEVMSLL\QPL NITQVLSHGEGTDINFWIQAGIV PGA\SLDDLYKYFF\HHSHGD TMTVHGIQTQMECLLLFWAV VSYV\ADME\EMLPRS
9397	39765	A	9457	2	631	
9398	39766	A	9458	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9399	39767	A	9459	7	257	

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9400	39768	A	9460	2	649	
9401	39769	B	9461	50	607	
9402	39770	A	9462	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSRFDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPNMQGMHTQEKEQVK TLNKSASFVDKVLFLQQNKM LETNWSLLQQQKPAQSNMDN MFESYINNLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLIKK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEIPELQSQILDTS VVLMDNSRSLDMDSIIAEIKY EELQTLAGKHWDRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQQRAKQDMAHG
9403	39771	A	9463	2237	2656	LSCSLFSGFAGTRFFGTSILRLPL MYCPVNDSGTAIIASSGPSATTS PP*TPAPGPMSTWSAARIASSS CSTTITVLPRSRRWISVPNRRSL SRWCRPIDGSSSTYITPTRPAPI WLARRIRCASPESVSAERESV
9404	39772	A	9464	3	2790	EFVLIKKD\VDEAYINKVELESR LEGLTDEINFLRQLYEEIRELQ SWISDTSVVLMDNSRSLDMNS VIAEVKAQYEEIANRSQAEAES MYQIKDEELQSLAGKHGDNLR CTKTKISEMNRNISRLQAENEG LKGQRAFLEAAIADAEQCGELA IKDANAKL/SELEAALQRAKQD MAWQLRLMNVRLALDIEIATY KKLLEGEESRLESGMQNMSIHT KTTSGYASGLSSACGGLTSPGL SYGLGASSFSRT

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9405	39773	A	9465	2	1516	SAIPTSTPASTMSIRVTQKSYKV STSGPRAFSSRSYTSGPSRISSS SFSRVGSSNFRGGLGGGYGGAS GMGGITAVTVNQSLLSPLVLE VDPNIQAVRTQEKEQIKTLNNK FASFIDKVRFLEQONKMLETK WSLLQQQKTARSNMDNMFESY INNLRQLET\LGQEK\KLETE L\GNMQGLVEDFKNKYEDEINK RTEMENEFVLIKDVDVDEAY MNKVELESRLLEG\LTDEINF\LR QLYEEEIRELQSQISDTSVVLSM DNSRSLDMDSIIAEVKAQYEDI ANRSRAEAESMYQIKYEELQSL AGKHGDDLRRTKT*DLLR*TRN ISRLQAEIEGLKGQRASL\EAAL ADAEQRG\ELAKDANAKL\SE LEAALQRAKQDMARHLR*VTR ELD*TFKLGPGTFE\ATYRKLL EGEESRL\ES\GMQNM\SIHTKTT GGYAGGLSSAYGGLTSPGLSYS LGSS\FGSGAGSSSFRTSSSRV VVKKIETRDGKLVSSESDVLPK
9406	39774	A	9466	1410	3244	PPCRRSHPRPPLRGEQKPRPSQP PFAVPAAPAPQV*PQMIDLCNV GFQFYRSLEHFGGKPVKQEPK PSAVWPQPTPTPFLTPYPYPK VHPGLMFPFFVPSSSPFPSRHT FLPKQPPEPLLPRKAEPQSEET KQKVERVDVNVQIDSYVVDV GGSQKRWQCPTCEKSYTSKYN LVTHILGHSGIKPHACTHCGKL FKQLSHLH\THMLTHQGTRPHK CQVCHKAFTQTSHLKRHMMQ HSEVKPHNCRVCGRGFAYPSEL KAHEAKHASGRENICVECGLDF PTLAQLKRHLTTHRGPIQYNCS ECDKTFQYPSQLQNHMMKHK DIRPYICSECGMEFVQPHHLKQ HSLTHKVLRLGWGGRGLGK RSGALSRLGSRTPVPLCTLPR GGLQGEIQAQSEFSPVCNHSP GVIQAE\KQGPSGVPEILPQLNS CPTKGTCRYYPEGSRLPSAGTI NKGPRLGFSRKGDSLTS\GAPL YVGKESKVHFRA\YEDPGVKEH KCGICGREFTLLANMKRHVLIH TNIRAYQCHLCYKSFVQKQTLK AHMIVHSDVKPFCKLCGKEF NRMHNL\MGHMLA\RN\GKPLK RLYCPSKFTLKGNL\TRHMKVK

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9407	39775	A	9467	1	1309	MRIQQLCGHLWQQKKISLELM SSFHKILKNKMGCQVTPDSKEL LKYLSCNSYPLTGSPQEAPVS DVPLPVSKCSHCSVQLIMCLRP EHIPNSPGIKGQGIKQHEEKHPT LLHLDASHLMTCFVVEMTLVY LIAGFKSLCSIHSYPPRTLRLHC EKVWDSLLENERRHEKRGAN FLHRLPAEHQWGIVQSSNIMAG LSARLQLFLEHRPFPVFELTAN GCPTKGLQGEIQAQSEFSPVC NHSPGVIQAEKQGPSGVPEILP QLNSCPTKGTCTRYYPEGSRLPS AGTINKGPRLGFSRKGDSLTS GAPLYVGKESKVHFRAYEDPG VKEHKCGICGREFTLLANMKR HVLHTNIRAYQCHLCYKSFVQ KQTLKAHMIVHSDVKPFKCKK SFTAQGNSAPQEDAGSQGE/PV CLL/CPNWGQRKGRAWRLRH
9408	39776	A	9468	3	4804	KRLNIQKTLEAVFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQRLAHLNDMIKE FISMGSVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLDKDKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
9409	39777	A	9469	2	1844	
9410	39778	A	9470	3	772	VPNPYTLLSQIPEEAFTVLD LKDVFFCIPVHPDSQFLFEDP LNPMSQLTCTVLPQGFRDSPHL FGQALAQDLSQSYLDLTLVLQ YVDDLLAACSETLCHQATQA LLNFLATCGYKVSKEAQLCS QQVKYLGLKLSKGTALSEECI QPILAYPHLKLTKQLREFLGITG FCRIW/NFQALLERPVLQLCTC ATLNPVTFPLPDNEEYNCQQII SQTYATRGLLEVPLTDPDLNL YTDGSSFVEKGPQKA

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9411	39779	A	9471	1	6504	MWGSURLAGAGGGGA AVTVA FTNARD CFLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAI FVWVDQQT YIFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKV VPL
9412	39780	A	9472	2	1658	
9413	39781	A	9473	1	617	MCSWTAPVSSILTHPNWPVLR MAGLTGCASVAMKKKIEHNCQ QVIAQTFTTRGDLLEIPLTDPGL NLYTDGSSFVEKGLRKAGYAV VSDNGILESNPLTPG TSAQLAEL IALTWAPELEEGKRVKRKKA I WREREFLTSEGTPIKHQEAIRRL LLAVQKPKEVA VLHCRGH/QE GNCQVDIEAKRATRSQVARGH KICDFPSCSYR
9414	39782	C	9474	587	715	
9415	39783	A	9475	96	269	
9416	39784	A	9476	1	1398	
9417	39785	B	9477	1	1152	
9418	39786	A	9478	3	241	
9419	39787	C	9479	202	534	
9420	39788	A	9480	108	199	
9421	39789	A	9481	125	352	
9422	39790	A	9482	2	325	RRSLALSPRPDCGLQWHNLGSL QAPLPGFTPFSCSLPSSWDYRR PPRPANFLYFLVETGFHLVSQ/ SGLDLLTS\DP PASASQSAGITG VSHRARPQNLFFK VRCPE
9423	39791	A	9483	184	383	LGLQ\WRNLGSLQAPLPGFTPFS \CLSLPSSWDYRRPQRPANFFF FVFFLVKTGFHLVSQG\GLDLL TS*SHPASAFQSAG\IGVSHRRP AITLQF
9424	39792	A	9484	1	416	MGRSFLGGGSTLMLLGGGQLH ILTPSFPSWTETGNYTCEFCGKQ YKYYTPYQEHVALHAPIRNSA KDDHRSASILSEN RGS HQ/SHAS CHHHYHCHYYH QHHHCLHHH SYHHHHCHHHRGMWRNWDTV LWIHQTPVQD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9425	39793	A	9485	3	534	GRRQRRSRHLLHRRQDRQSAP GSGSKIPQK\KVKLAADDDDD DDEEDDFDDEETEEAPVKKSIQ DTPARNAQKSDQNGKVS KPSS TPRSKGQESFKKQEKTPKTPKG PRSVEDIKTKMQASIEKAHGTV LGTTVGNIPLRGGNQEKFHGAA GVWFGKFGVQRKIQQKQLQKD VTSGS
9426	39794	B	9486	44	924	
9427	39795	B	9487	41	2197	
9428	39796	B	9488	67	1507	
9429	39797	A	9489	134	311	
9430	39798	A	9490	5	1545	EKIQINTI/KNDKGILPLDPTIEIQI TIREYYEHLIAHKLENLEEIDK FLDIYTLPRLNQEELESLNRKPN TACSNLRDGSLLLGDGHGSSIQ AAIEVVGAGSVATKGRGRQDD TDPSNRYHRPPYSQEEKEQCITL LLSWCLGDSQGPQCRPQLSLQE LRREFTVSLHLARKLLSEVRGQ AHRFVSPNAAGAGDGQTPNPF WPPLTDLAPQAESHLPGVNLYL LPLGEQLPDVSLTFQAWRRLSV KCTAVRAYQTTRVVETSSCRL HVKGASNASTHRSPKEVTQGT NKSERRTRETQRAIRERNMAGC CTCATDVLVTLQSLMEGLALQ PQTRALLGSASIKASCAVTII LMSENLGKGCSSKSEGMVRRY AKHKKQEIKPYYQRKSPSLERG QEEKKVGREDREGSENQYLYG PSNISEARNRLPECGRMGLGYV ARLFLGDRRSSTPSFASYDPSSL VTYGHRRSCRVS DIRVPRLGPV VGGPCKGTGIDLQCEREKKNEE
9431	39799	A	9491	32	2123	
9432	39800	A	9492	1	911	MSTLKGLIIKIIISVMIASEFILEE RIKTGLNAAKHCFAPSQAASH TISRPIPIRSASACSTPTHTPQ DSLTVGGDVQEAFQSSRRN LRNDLLVAADSITNTMSSLVKE LNSEVGSETESNVDFARTQF EDLVPSPTSEKAFLAQIHARKP GYIHSGATTSTMRGDMVTGDA NPYVQPEDENYENDSVRQLEN ELQMEEYLKQKLQDEAYQMPL VPTKKEIHMEDFLSSLPEGAIAQ CPRTFIPDCRRKGASYSQTDDSES NMKTGDDGEPGHTTEEDSSL AAASPKRGTTTPSSS

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9433	39801	A	9493	2	2233	
9434	39802	C	9494	477	737	
9435	39803	A	9495	2	746	GQATHFMAKEV*QWAHAHGIH WSYRVPHHPEAAGLIEWWDCL LKSRLQCQLGDNTLQAWGKVL QKAVYALNQCPITYGTVPIDRI HGSRNQRVEVEVEVAPLTITPS DPLAKFLLPGLTTLCSAGLQVL VPEGMLPPGDTTTIPLNRKLR LPPGHFGLFLPLSKQAKMRVTA LAVVIDLDYQDEISLPLHNGDK EEYARSTGDPLELLVLPSPVIE VNGKLQQHNLGRTTNGPDPLG MKVWVSPPG
9436	39804	A	9496	70	532	HVALLMPLQNSRSFSGYGFAYP ARNTFSKTTIHGLKECLIHGHI PSSIASDQGTFLPKEV/RKWAH AHGIHWSYHVPHYPEAASP/HS DPLAKFLLPVPTTLCSAGLAVL VPEGMLPPGDATMIPLNLSSR SHLGMPPTSLKVVRMCSKDKY
9437	39805	A	9497	51	408	CVPEPRTPSLGFQT/HPAAHAPG AQAPGSAH/DRLSSAGPGSRAA PRAPWRPWTIGYSESQPTVL/RP GQPWPGRGVSGSSAPSVPSALR GPPRSSRPSCCTWWCLWRCRH RDLGRDINFTL
9438	39806	A	9498	3	618	SSCAFSHRSSRPSRCHTVRRSTA PCAAS*HSSRAPKRHWALPGSS G*S/WRETPSTHW*P*TLPRWRT ALRPSQ*PRPRVFRVRKPCSSRP PTITRCALASAQ*SCAAIPTSSLA QRKSSRSPRRTATTWGTARRSR AHAVPAGRSPAPSAPPQAP RAWSAAAPASPSRLSSAGRGRQ AAPRAPWRLRGPPRSCRPTCCT WWCP
9439	39807	B	9499	215	293	
9440	39808	C	9500	1	1170	
9441	39809	C	9501	25	481	
9442	39810	A	9502	27	265	
9443	39811	A	9503	2	326	GRVGGRVGS DLGRGDMARKT KKVGIVGKYGTRYGA/SRVRK MVKKIEISQHA KYTCSF/CGKT KMKRRAVGIWCCGSCMKTVA GGAWTYNTTSA VTVKSAIRRL KELKDQ

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9444	39812	A	9504	2	1125	RVGRPPLPPRPTHPRRKPLPPNN VTGKPGSAGIISGPITTPPLRST PRPTGTPLERIETDIKQPTVPAS GELENITDFSSSPRETDP L GK PRFKGPHVRYIQKPDNSPCSITD SVKRFPKEEATEGNATSPQNP PTNLTVVTVEGCPSFVILDWEK PLNDTVTEYEVISRENGSFSGK NKSQMNTNQTFTVENLKPNTS YEFQVKPNPLGEGPVSNTVAF STESADPRVSEPVSAGRDAIWT ERPFNSDSYSECKGKQYVKRT WYKKFVGVLCSNRLRYKIYLS DFLTGKFYNIGDQRG\HGEDHC QFVDSFLDGRTGQQLTSDQLPI KEGYFRAVRQEPVQFGEIGGHT QINYVQWYECGTTIPGKW
9445	39813	A	9505	2	385	REAGSGGNDNFARRRNFSG\RG G\FGG\SRGGVW\WVAVGDGY NGFG\NDGSNFG\GGGSY\NDF WENTNKSLQNFPGHEGGEIFG GQKLLAPYGGWRPNTFAKPTK PQGG\YGG\SSSS\SSYGKWPEDF
9446	39814	A	9506	945	2313	TRVLLESRAGSQQSEGEASWQ RGYARPSCQAAISFPEHRRALR ALWAGDCRVADAGPGSSSTPP SPPSLPKTSVSLGFLCFKKS LAA SCASGRERQLEA*VWASQPLSP TQWSEGLGVRVWASQPLSPT QWSEGG/PGGPSVGISTSLTYPV EGRT/GWGPECYVFCMLHRLPE QHDCTFDHMGRGREEAIMKM VKLDRKVGRSCQRIGEGGQED DVVASILVSMQPHSPRTSPHLP YSKFKDFSSCNCARQGWKEMG ACVQRPSAVLGGTRPVSVQAK QPLPCFLLGASALGSCGTGLGV KDRDIDRIVVMSVMKILRGNQR PSGDEQARGQRAREGLGGLGV RRACREQWAVLCPLVHRNWV CVSSFLIASQSNSPQQQHNCY ANNSPQQEEMVGRQAETFL GGVRNRKPWVGVRGLQGSH QQHIQGA VSSPSPKKGVS KRE
9447	39815	A	9507	3	684	

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9448	39816	A	9508	15	513	RIRLEGLWGSSKTMNLCSCFA DFQKKQPDDDSAPSTSNSQSDL FSEETSDNNNTSITPTLSPSQ QPLPTELNVTSPSKEEYSQSENE ASPVKRPRLLENTERSEETSRSK QKSRRRCFQCQTKLELVQQEL GMCRCGYVFCMLHRLPEQHD CTFDPHGAVAGR
9449	39817	A	9509	818	1455	SDYITRDGASFTKALLTWKNPV PNFFWKKDTFKLWGEVIRSTM WKT/DQSPSAAWMGGFGAQQP QQQAPPPVIPPNNQAGYGMASY QTQILPSPHILAVFMLPERGPNP DPKRGFLDLARKNLGNWVSTIT FLSRFPGVQVLQEFVVPGT MPL LRPLELPMHFNPHFSTALASLIA DELYLLPQLSVSQMGESFPSFD MMAICAQASTNRLWMP
9450	39818	A	9510	1	1132	MMEDDGGQPRTLVGNLSRDVT EVLILQLFSQIGPCKSCKMITEH TSNDPYCFVEFYEHRAAAAL AAMNGRKILGKEVKVNWATTP SSQKKDTSNHFHVFGDLSPEI TTEDIKSAFAPFGKISDARVVK DMATGKSKGYGFVSFYNK LDA ENAIVHMGGQWLGRQIRTNW ATRKPPAPKSTQENNTKQLRFE DVVNQSSPKNCTVYCGGIASGL TDQLMRQTFSPFGQIMEIRVFPE KGYSFVRFSTHESAAHAIVSVN GTTIEGHVVKCYWGKESPDMT KNFQQVDYSQWGQWSQVLGN PKPSD\RYMANGWQVPPYELY GQPWNQQAQFV\DQSPSAAWM SGFGA\QPP\QQQAPPPVIPPNN QAGYGMASYQTQ
9451	39819	B	9511	1	1212	
9452	39820	A	9512	1	1032	

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9453	39821	A	9513	17	976	SGRP/GGPGGGPGMGKPRCF/RGE VFGIVIRGPGFPPGGRGRGR\GR GARGGKGPRIKGLGCPSTKLGI RLVKDH*RSKFPWRRSIYSYSG PLKESEIIDF\FLGGLLSKDEVFE RLCQVQEPEPVPQGQRHQGSRHF VA\NGNYQWPTVGSGVLKCSQE /VWPTAHPVGPIILAKLLHSSPC AEGYWGEQSIGKAP/HTVPCQ/ VWTGRCGSVLVRPHPWHPRG GIVSAPVA\KLLMMAGIDDCY T\SARGCTATLG\NFAKAT\FDAI SKTYSYLT\PD\WKETVFTKSPY QEFTDHLVKTHTRVSVQQTQA PAVAYNIGFLYKKNKVN
9454	39822	A	9514	1	866	
9455	39823	A	9515	1	1793	MAAAAVSGALGRAGWRLQL RCLPVARCRQALVPRAFHASA VGLRSSDEKQKQPPNSFSQQHS ETQGAEKDPPESSHSPRYTDQ GEEEEEDYESEEQLQHRILTAA LEFVPAHGWTAEIAIEGAQSLG LSSAAASMF\GKD\GSELILHFVT QCNTL\TRVLEEEQKLVLQLGQ AEKRKTDQFLRDAVETRLRLMI PYIEHWPRALSILMLPHNIPSSL SLLTSMVDDMWHYAGDQSTD FNWYTRRAMLAAIYNTTELVM MQDSSPDFEDTWRFLNRVND AMNMGHTAKQVKSTGEALVQ GLMGAAVTSPRSRRGGWWPLG EMPYANQPTVRITELTDENVKF IIENTDLAVANSIRRVFIAEVPII AIDWVQIDANSSVLHDEFIAHR LGLIPLISDDIVDKLQYSRDCTC EEFCPECSVEFTLDVRCNEDQT RHVTSRDLISNSPRVIPVTSRNR DNDPNDYVEQDDILIVKLKRGQ ELRLRAYAKKGFGKEHAKWNP TAGVAFEYDPDNALRHTVYP KPEE\WPKSEYSELDEDESQAP YDPNGKPERFYYNVESCGLRP ETIVLSALSGLKKKLSDLQTQLS HEIQSDVLTIN
9456	39824	A	9516	3	176	FFFFFAETNSK*ITYQNIHIMVEI FQNSIFWDLYTKDKQIRGQEA RREKRGLGRPL
9457	39825	A	9517	1485	1679	RVGDAGHDDPGKPGPPGAGHR PEG*TGAHSLRAGLPACRAEPA GPGRAREGSKAPGHCAEELLQ

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9458	39826	A	9518	1	232	FFFETESCSVAQAGVQWCDLG SLQTLPTG/SSRHSPASAFRVARI TGARYHVRLLIFVFLVQTGLHHL GQADFDLLTS
9459	39827	A	9519	1	2408	GTLVTKVAPVSAPPKVSSGPRL PAPQIVAVKAPNTTTTIQFPANLQ LPPGTVLIKSNSGPLMLVSPQQT VTRAETTSNITSRPAVPANPQT VKICTVPNSSSLIKKVAVTPV KKLAQIGTTVVTTVPKPSSVQS VAVPTSVVTVTPGKPLNTVTTL KPSSLGASSTPSNEPNLKAENSA AVQINLSPTMLENVKKCKNFLA MLIKLACSGSQSPMGQNVKK LVEQLLDAKIEAEFTRKLYVE LKSSPQPHLVFLKKSVALRQ LLPNSQSFQQCVQQTSSDMVI ATCTTTVTTPVVTITVSSSQSE KSIIVSGATAPRTVSVQTLNPLA GPVGAKAGVVTLHSVGPATAAT GGTTAGTGLLQTSKPLVTSVAN TVTTVSLQPEKPVVSGTAVTSL LPAVTFGETSGAAICLPSVKPV VSFCWDH\CKPVIGTPVQIKLA QPGPVLSQPAGIPTGSSSKQLFS LFHVQQPSGGNEKQVTTISHS STLTIQKCGQKTMVNTIPTSQ FPPASILKQITLPGNKILSLQASP TQKNRIKENVTSCFRDEDDIND VTSMAGVNLNEENACILATNSE LVGTLIQSKDEPFLFIGALQKR ILDIGKKHDITELNSDAVNLSQ ATQERLRGLLEKLTAIAQHRMT TYKASENYILCSDTRSCLKFLE KLDQLEKQRKDLEEREMLLKA AKSRSNKEDPEQLRLKQKAKE
9460	39828	A	9520	1	637	MLSNVKGGRKLPNGTWAHDL VTPPTASLLLLTEPAMPSVAF HSILIVTKGGVKRTRVPPPNSS GARTGNPLKVKHISFKTGDELIF LDPHTTQTFVDTEENGTDNDQT FHCLQSPQRMNINLDPSVALG FFCKEEKDFDNWCSLVQKEILK ENLRMFELVQKHPSHWPPFVPP AKP\EVTTTGAEFI\NSTEQL\EEF DL\EEDFEILSV
9461	39829	A	9521	3	176	
9462	39830	B	9522	1	792	

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9463	39831	A	9523	2	486	NGHVGLGVKCSKEVATAIRGAI ILAKLSIVPVRRGYWGNKIGKP HTVPCKVTGRCSVLVRLIPAP RGTGIVSAPVPKLLMMAGIDD CYTSARGCTATLGNFAKATFD AISKTYSY\LT PDLLKE\TVFTKS P*QELTDHLVKTHTRVSVQRT QAPAVATT
9464	39832	B	9524	1	2991	
9465	39833	A	9525	3	263	KHENWSTARQSLHACSRVTWQ NRLRLSNKWMPSHVLCLLP/S MTLQPANLSSLLITPPEFGPKIA SPICTSCSVNFPRTLISPFSHC
9466	39834	A	9526	1022	1201	
9467	39835	C	9527	1	924	
9468	39836	A	9528	2	837	WKNCLEKRSMLTMHRILES*D* RQE/ILERHDAKYHSPKAEKQ MKHKAGSQIVKKEEAKLALAL EGFCRFRNHHQTGFSPAGATQR GPLVAILSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFPTGKRAWPPFRL FLPHKGFADWGPTINQDFRLLG QPSVARFLNFSQGPAGEGQSAV ARLPGHFPITQPPYPILPGYAAAG MQALARRRPILMFDSLSSNFCH SSAYYHLFRRSNQAFKGTNNCL KKITPRPATHRSTVVIH
9469	39837	A	9529	3	1137	APAPSPVSGSGCCLSHMFFHPPS RANRAFVD\YAPMDEIQNAEIN SQVRRYLEGTLDEIDVRNPSVT TMLSQPGPPSPGHTPTHALLAS EPHVNGCKTVSTVHEDYSGSSE SSNDESSEDTSDDSSIPRNL QSVVAVPKNSTLPMEETSPCSS RSSQSYRHYS DHWEDERLESRR HLYEEKFESIASKACPQTDKFFL HKGTEKNPEISFTQSSRKQIDNR LPELSHPQSDGVDSTSHTDVKS DPLGHPNSEETVKAKIPSRQQE ELPIYSSDFEDVPNKSWQQTTF QNRPD SRLGKTELSFSSSCEIPH VDGLHSSEELRN LGWDFSQEKP STTYQQPDSSYGACGGHKYQQ NAEQYGGTRDYWQANGLLS
9470	39838	A	9530	1	1857	

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9471	39839	A	9531	1	989	MEDWKVRGHQEKTAFEVQSF SCSERETTLVLLLRSPAVPQLLL HGLCGPDLSTKAAQCHFKAIW QSLGNTLGAVSDQATPGHVKS LPPGALISRQGRGQFCSVDAVF LLHDSPELPSSLPHGASLPLASS DKQAEQTWLGAVGSVQCTSIT ACPRDLEDRPHLTEHPPAGVHC GQNPCPCHLIFTLYSKSLPLDLA CRIWDVFCRDGEEFLFRTALGI LKLFEILTKMDFIHMAQFLTR LPEDLPAEELFGPSIATIQMQSR NKKWAQEPGHELEWPDRSFRP RVLACPMGSREHRLQPACSGST GQGHTKALFPETCCQSPIFQDA
9472	39840	A	9532	2013	2270	
9473	39841	A	9533	3	744	
9474	39842	A	9534	190	991	SVLSNKQNHCSQTAPPPPPAA SGSRGWVWGLFWGLAAILEGS TGADWSQLPHSCCPSLLVPHVL SVVPLRPPHRDFPVEDVFTLPV YFSSDWLNEFWDALDVEDDYRF VYAGPAGSWSPFHADIFRSFSW SVNVCGRKKWLLFPPGQEEAL RDRHGNLPYDVTSPALCDTHL HPRNQLAGPPLEITQEAGEMVF VPSGWHHQVHNLDITISINHN WVNGFNLANMWRFLQQELCA VQEEVSEWRDSMPDWHHCQ VIMRSCSGIKL
9475	39843	A	9535	1	885	MKRRAVMGPPQVQAWKALDL WESSQVMEGKAVVPMGRNPM MRKATQGQLENSPALEKLLPPL QGNVGFAFTKEDLTEVRDLLL ANKVPAATRAGAIGPCEVTVPA QNTGLGPEKISFFQALGITTIS RGTTIELSDVQLIKTGDRVGAS EATLLNTPNISPFSGFLVIQQVF NNGSIYNPEVLDITEETLYSGFL EGVRNVAS\CLQTGYPPVASVP PSII\NGYKGCLALSVETDYTFPP AEKIKTFLADPSAFVAAAPVAT TATAAPAAAAAPTKFENESEEE LDEDMGFGLFD

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9476	39844	A	9536	65	988	RTAVMPREDRATWKSNYFLKII QLDDYPKCFIVGADNVGSKQ MQQIRMSLRGKAVVLMGKNT MMRKAIRGHLENNPALEKLLP HIRGNVGFVFTKEDLTEIRDML LANKVPAARAGAIAPCEVTVP AQNTGLGPEKTSFFQALGITTKI SRGTIEILSDVQLIKTGDKVGAS EATLLNMLNISPFSFGLVIQQVF DNCSIYNPEVLD\ITEETLHSRF LEGVRNVASVCLQIGYPITVAS VPHSIINGYKRVLALSVETDYTF PLAEKVKAFLADPSAFVAAAPV AAATTAAPAAAAAPAKVEAKE
9477	39845	A	9537	1	993	MREIALTQTRQCGKKIGAKVGI RGSEVPAPAYWVAREDVSGSG GLGGGWYVPCAVLVDLEPVT MDSLRSRGPFGILFRPTTSSLKLIE NADKTFCIDNEALYDIYSRTLK LPTPTYGDMNHLLSATMSGVT MCLGFPGQLNADLQKLSVNMV PFPRLHFFMPGFAPLTSRGSQH YQALTVAELTQQMFYAKNMM AARDPRHGRYLTA A AIFQGRM PMREVDEQMFNIQDKNSSYFA DWFPDNVKTAVCDIPPRGLKM SGSFIGNNAAIQELF\QCVSEQF TAMFRRKA\FLHWYTGE\MD MEFTAEASNMDLVSEYQQY QDATAQGGGG
9478	39846	A	9538	231	881	SSLSGTKVGS LPFRLLHWMPVS YSSVTTRY YHRAGAE EGKDRII FVTKKDHETPSSAELVADDPND PYEEHGLILPNGNINWNCPLG GMASGPCGEQFKSAFSCFHYST EEIKGSDCVDQFRAMQECMHK YPDLYPQEDEDEEEEREKKPAQ QAEETAPIEATATKEEEDQVNE GHKALSTSPFGVDLLQKALSSP SKKVSFCCPVHYNIQNNLF
9479	39847	A	9539	1	804	

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9480	39848	A	9540	2	3337	SSLLEKMTSSDKDFRFRMATSDL MSELQKDSIQLEDSESRKVVK MLLRLLLEDKNGEVQNLAVKW LGVPLGAFHASLLHCLLPQLSS PRLAVRKRAVGALGHLATACS TDLFVELADHLLDRLPGPRVPT SPTAIRTLIQCLGSVGRQAGHRL GAHLDRLVPLVEDFCNLDDDE LRESCLQAFEAFLRKCPKEMGP HVPNVTSCLCLQYIKHDPNyny DSDEDEEQMETEDSEFSEQESE DEYSDDDDMSWKVRRAAA
9481	39849	B	9541	1	3178	
9482	39850	A	9542	190	284	LNAQPGTRRLWPAEIRPPPRRL GKGGQQVSHHPISCIFYCECEE KRLCVNTHVWTK*T
9483	39851	A	9543	62	280	
9484	39852	A	9544	1	1452	
9485	39853	A	9545	2	998	ITAGATPEERVICFVEYYLTAFH EGRKGALAKKPYNPIGETFHC SWEVPKDRVKPKRTASR/PLLP AVMNTQWPMTLPKSYKLRFVA EQVSHHPPISCIFYCECEEKRLCV NTHVWTKSKFMGMSVGVSMI GEGVLRLLEHGEEYVFTLPSAY ARSILTIPWVELGGKVSINCAKT GYSATVIFHTKPFYGGKVHRVT AEVKHNPTNTIVCKAHGEWNG TLEFTYNGETKVIDTTTLPVY PKKIRPLEKQGPMEsrNLWREV TRYMRLGDIDAATEQKRHLEE KQRVEERKRENLRTPWPKPYFI QEGDGWGILQSPLESTLMGLEV
9486	39854	A	9546	12	740	HFFLYKKLIPFVLKNCMFHFSP VRGTVVTNDRWGAGSICKHGG FYTCSDRYNPGHLLPHKWENC MTIDKLSWGYRREAGISDYLT EELVQPLVETVFSAGNPLMD\IG PHLDGTISVVFEERLRQMGSW LKVNGEAIYETYTWRSQNDT VTPDVWYTSKPKEKLVAIFLK WPTSGQLFLGHP\KAILGAT\EV KLLGHGQPLNWIFFGDKMGIM \VELPQLTIHQMPCKWG\WAL A\LTNVI
9487	39855	B	9547	1	627	
9488	39856	B	9548	47	504	

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9489	39857	A	9549	2	379	VDLVREFIERQ/HAKNRYYYYH RQYRRVPDITECKEEDIMCMYE AEMQWKRDKVDQEIINIMQD RLKAFQQQSYRATQQGHPQAA SGGGSWRPLLQIFSLAASSASV RPGTSWQNCRPPGPD LGKQ
9490	39858	B	9550	49	707	
9491	39859	A	9551	3	1162	
9492	39860	C	9552	342	581	
9493	39861	A	9553	3	513	LLPHKPLAGFFKAYLPSEPRV YVSSFWPQ/EYKPDTHQELFLQ EEIS/LLEDLNQVIENRLENKI/A FIRQHAIRVRIHALLLARGLDPF IGPRRDWLVPYAVTGAVAFGF VEGLDPSQEHPRFQGTQDNVSK DESTRKEQSVRLVCGGADDRK PRDLQILDRDRKGPELVQ
9494	39862	A	9554	1	1365	
9495	39863	A	9555	771	1536	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTPSPTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSDNPDGYIDVLQGLG QCFDLTWRDIMLLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPDSGTYDTKE CKIVQSVEMSMEVMIAVMSVQ RQQGKQTQQQPLLVVVRSAP AEESVPHKSSTRGAS
9496	39864	A	9556	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DSPQ GKNTPKMYS GEFSPVRVHVPFSLSDLKQIKID LGKFSDDPDGYIDVLQ
9497	39865	A	9557	2	385	
9498	39866	A	9558	84	849	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLCPTGSPQSLPPYAS IPPTPSPTIK/DPPSTQMV/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLGKFSDNPDGYIDVLQGLG QCFDLTWRDIMLLLNQTLTPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPDSGTYDTKE CKIVQSVEMSMEVMIAVMSVQ RQQGKQTQQQPLLVVVRSAP AEESVPHKSSTRGAS
9499	39867	A	9559	66	197	RQWKG*KFVFQKM*DLGKYLQ RQLFCLSSLVQPPWPVPTEIYP
9500	39868	A	9560	1	2340	
9501	39869	B	9561	1	1776	

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9502	39870	A	9562	1	1349	
9503	39871	B	9563	107	769	
9504	39872	A	9564	329	2042	
9505	39873	A	9565	511	1631	HFGNHERTSKVMGNVPRKTKT PLRRILENWEQFDPQTLRKKRLI FFCSAAWAPPEGSINYNTILQLD LFCRKKGK WSEVP*VQTFSLRD NSQLCKKCDLCPTGSLQSLPPY PSIP\TPSPLNKDPPSTQMVQKEI DKRVNSEPKSANIPQL*PLQAV GGREFGPARVHVPPSLPDLKQI KTDLGKFSDNPDGYIGVLQGLG QFFDLTWRDIMSLNQTLPNE RSATITAARELGDLWYLSQVN DRMTTEERERFPTGQQA VPSAD PH*DTSEHGDWCCRHL LTCVL EGLRKTRKKAVNFSVMSTVTQ GKEENPTAFLERLREALRKHTS LSPDSIEGQLILKIKFITRSAADI RKQTSKVHLRPGAKLKTPY
9506	39874	A	9566	15	178	
9507	39875	A	9567	3	826	RQLGTRNFLNGTKAKAFELSYL EKVPEGKDTVHKQSLHHVGT MGGENFPDSSDLYSEIGAITRSA KDDFDQLQDNLCQMERRCIAS WDHLKAIKHEMKPLLKQRMS ELLDCAERIIILKIVHTRIINRF HSFLLFMGHPPY AIREVNINKFC RIISEFALEYRTTRERVLQQKQK RANHRERNKTRGKMITDSGKF SGSSPAPPSQPQGLSYAEDAAE HGEHEGCAENLVPLQESPAHTF SIVSAVFLIP*HPVY*FKSVTPF LGKEQPL
9508	39876	A	9568	1	670	

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9509	39877	A	9569	1	2426	MPKPSLEAGSCPRLEFPVEDAQ PVIKGEEFTPPPPNSYLALGDIST EEWDLEVAQEYQERMPPQRAA LICVFSWNLGRSLPAPAMRRPC QNFCVALSTFAGDPEPESEAE EAEAGAGQVADEAGQDIASAH EGAETEVEQALEQEPEERASLS EKERQNEG VNERDNCSASSVSS SSSTLEREEKEDKLSRDRTTGL WPAGVQDAGVNGQCGDILTNG RFMLDMLYAHNRKSPDDEEK DGEAGRTQQEAEAVASLATRIS TLQANSQTQDES VRRVDVGCL DNRGSVKAFAEKFNSGDLGRV FNAPQGLGWSQVPRGQPTFTK KKKTIRLFWNRN/VGLLTGH/G KNNRRCREFLWSKLEPIKVDTS RLEHLFESKSKELSVSKASKLV RPLFILTSACPFLSFPWKAPLHS STRQLHRGLSAQERWRCSGIRG MECLNGKGPLESRNPAYRKSE GTRQTGAGDMKDG VVWQGVPA TPDTPQGMCTVCTVSFAIMDGL NVNSVGPLPFHEVAEPLLDLKE GIDQLDYTLGFFFLVSMLSGGG LLGGSASAKAFELSYLEKVPEV KDTVHKQSLHHVCTMVVENF PDSSDLYSEIGAITRFHSFLLFM GHPPYAIREVNINKFCRISEFAL EYRTTRERVLQQKQKRANHRE RNKTRGKMITNCVRHCVRMFS GSSPAPSPQQLSYAEDAAEH
9510	39878	B	9570	164	346	
9511	39879	C	9571	160	339	
9512	39880	A	9572	54	212	SFPSVVLWKDLQNLKIQVPGLI LLGVGLISVPGGRI*LLRTGSRK PISQVCP
9513	39881	C	9573	48	185	
9514	39882	A	9574	2	551	ADRRGAVYPRSRDGGGVRGPC AMATSVLCCLRCKDRGTGHIP LKDMLSVHMDTQHMGTDVVI VKNGRKIFGTGGCLASAPLHQN KSYFEFKIQSTGIWGIGVATQK VNLNQIPLGRDMHSLVMKNDG ALYHNNEEKNRLPANS LPQEG D/VVDDSAILDCQFSEFYHTPPP GF EKILFEQQIF
9515	39883	A	9575	3	655	

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9516	39884	A	9576	131	1066	SHSSSAAAHPLGLLPAAQSLA VFIEPWSQASSRGQLQ/V SAPGI WGIGVATQKVNLNQIPLGRDM HSLVMRNDGALYHNNEEK NRL PANSLPQEGDVVLCWSNNGHS LCKEESLSPIPTSDGEERRRKR KKRKRKKRKQKQQQQQEEAAA PAEADAEATAAEAAVEEAAAR KEEEEEEGEEGEGNGEEEEKAA AAARGDWSQQEKACKSSLQAI LFGHAKLEPGRLPRPTQCRVEA TVLVGTNSPLDNPLWSISWSLW QKPVGTSQQQPLGLWTREFFLE GHLLTRNETFTEATPLIPEIGML SQMMSEEH
9517	39885	A	9577	1	2363	ELQRDIEKHSTGVASVLNLCEV LLHDCDACATDAECD SIQQATR NLDRRWRNICAMSMERRLKIE ETWRLWQKFLDDYSRFEDWLK SSERTA AFPSSSGVIYTVAKEEL KKFEAFQRQVHECLTQLELINK QYRRLARENRTDSACSLKQMV HEGNQRWDNLQKRVT SILRRL KHFIGQREEFETARDSILVWLTE MDLQLTNIEHFSECDVQAKIKQ LKAFQQEISLNHNKIEQIIAQGE QLIEKSEPLDAAIIEEELDELRR YCQEVFGRVERYHKKLIRLPLP DDEHDLSDRELELEDSAA LSDL HWHDRSADSLSPQPSSNLSLF ASLQPLRSERISGRDTPG SVDSI PLAEWDHDYDLSRDLESAMSRA LPSEDEEGQDDKDFYLRGAVG LSDVMIPESPEAYVKLTENA IK NTSGDHSALQSIRQLGKALDD SRFQIQQTENIIRSKTPTGP ELDT SYKGYMKLLGECSSSIDSVKRL EHLKKEEEESLPGFVNLHSTET QTAGVIDRWELLQAQALSKEL RMKQNLQKWQQFNSDLNSIW AWLGDEEELEQLQRLELSTDI QTIELQIKKLKELPESCWDHRK AIILSINLCSPEFTQADSKESRDL QDRLSQMNGRWDRVC SLLEE WRGLLQDALMQCQGFHEMSH GLLLMLENIDRRKNEIVPIDSNL DAEILQDHHKQLMQIKHELLES

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9518	39886	A	9578	2	3248	ENAVGSWTDDLTLQLSLLKDTL SAYISADDISILNERVELLQRQW EELCHQLSLRRQQIGERLNEWA VFSEKNKELCEWLTQMESKVS QNGDILIEEMIEKLKKDYQEEIA IAQENKIQLQQMGERLAKASHE SKASEIEYKLGKVNDRWQHLL DLIAARVKKLKETLVAVQQLD KNMSSLRTWLAHIESELAKPIV YDSCNSEEIQRKLNEQQELQRD IEKHSTGVASVLNLCEVLLHDC DACATDAECDSIQQA
9519	39887	A	9579	2	194	CSTSLMIREMQIKTTVRYHLTS ARMAIIKKSK\NSRCWHGCGEH GTLLHCCNLWKERNVSYVSA
9520	39888	C	9580	105	215	
9521	39889	A	9581	1	210	MNSHFLKEDIQMANKHMEKCS \TLLMIREMQIKPTVRYHLTSAR MPIIKKSK\NSRCWHGCGEHGT LLHC
9522	39890	C	9582	48	182	
9523	39891	A	9583	3	225	
9524	39892	A	9584	1	549	
9525	39893	A	9585	367	971	GVCLLGAPAGRRGSLLSLGLSLR GQGSYLSKNVAVPSEATTVREL HP**TSLQRPPSDPGGWVVLGF P\CNQFGHQENRQ\NE\EILNSLK VRSGPGGGFEAQLHGSSRKCEV \NG\SGAHLPLFAFLR\EALPVP DDGPRAL*PTPKLITWFGVFA TIVAWNFFEKFL\VGPDGVPLR RYSR\AFQTIDIEPDIEALLSQGP
9526	39894	A	9586	1	129	
9527	39895	A	9587	1	406	PTVCERELCVFAFQTLGVMNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYGSGIYLSPMSSIS FGYSA
9528	39896	A	9588	2	634	SSNRSHIVKLPVNRRLKFMHTP HQFLLLSPPAKESNFRAAKKL FGSTFAFHGSHIENWHSILRNL VVASNTRLQLHGAMYGSGIYL SPMSSISFGYSGMNMKKQKVS DEPASSSSKSSNTSQSQKKGQQS QFLQSRNLKCIALCEVITSSDL HK\HGEIWGCPII/SDHVCTRFFF VYEDGQVG DANINTQEGGIHK EILRVIGNQTATG

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9529	39897	A	9589	3	3623	FGVCARGCLDSAGPWTMSRAL RPPLPPLCFFLLLLAAAGARAG GYETCPTVQPNMLNVHLLPHT HDDVGWLKTVDQYFYGIKNDI QHAGVQYILDSVISALLEDPTR RFIYVEIAFFSRWWHQQTNAQ EVVRDLVRQGRLEFANGGWV MNDEAATHYGAIVDQMTLGLR FLEDTFGNDGRPRVA WHIDPFG HSREQASLFAQMFGDGGFFGRL DYQDKWVRMQKLEMEQVWR ASTSLKPPTADLFTGVLPNGYN
9530	39898	B	9590	1	3839	
9531	39899	B	9591	1	513	
9532	39900	A	9592	1	233	KQELNEPPKQSTSFLVLQEILES ENKGDPNKPSGFRSVKAPVTK VAASIGNAQKLPMCDKCGTVL QQASAAAFSLSV
9533	39901	A	9593	3	469	LTVARSEHKVWSPPLVTGEGKR HPYKMNLASEPQEV LHIGSAHN RSAMPFNASPASSTTARVITNQ YNNPAGLYSSENISFNFNASSL VIDKESEVYKMLQEKQELNEHP KQSTSFVVLQEILESEEKGDPN KPSGFRSVKAPVTKVAASIGNA
9534	39902	A	9594	1	1146	MTTQQIDLQGPWPWFRLVGR KDFEQPLAISRVTPGSKAALAN LCIGDVITAIDGENTS NMTHLE AQNRKIGCTDNLTLTVARSEH/ KKVWSPPLVTEEGKRHPYKMNL ASE\PQEV LHIGSAHNRSAMPFT ASPASSTTARVITNQYNNPAGL YSSENISFNFNCALESKDWLPA GVEANSRPLDHA\QPP\SSLVID KRILKVYKMLQEKQELNEAPPK QSTSFLGFCQEIL\ESIEEKGDPN KP\SGFRSV\KAPVT\KVA\ASIG KCSRKF AFCVDKCWHLGFLGV FLKLR\DRHRHP*VFMCTDC GHQT*KQKGPFLWMDQIYCE ESMAPGSEVNTHPEGIYESGST VFPPSGAQDLDPLFLPAGLLL KLFLKCSGPLSL
9535	39903	A	9595	65	353	

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9536	39904	A	9596	1	1974	MNGVPVGAQKRVDKEEVKNG AIAELFSEDWSDCAYKANEVSR IRPLEESELLYPILGQSKLFVLSG EWSQSSEEASEEVAVTLIYQLA ESPTVICAQIWQGCQAKQALEKL EEKRTSQGDPKESPTMLPTFLL MNLLSLAGDVALQQLVHLEQA VSGELCQRRVLREEQEHKTKDP KEKNTSFETTMEEELGLVGAA DDTEAELIRGFCKMELLDGKQT LAAFVPLLLKVYNNNSGLYSNP LSAAASPTLGKFCMISTTFCNSQ PHLLFTMLEKSPLPIVRNLIVA TGDLAIHFPNLVDPWTPHLYAH LQDPAQPVWKT VGLVMTHLIL KDMVKVKGQSKAL/RKMLGNF DCFGDKLSDESIFSSFLSVMGKL QHGAKEGKAIIDEFEQKLQAC HARGLDGIEELINQAGSQRAP TAKKPSTVCRHQPLASAASDN DFVTPEPRRTTHRHPNTQQRAS EKKPKVVFSSDESSIKTEVEGLG YNIKLRVATQRLSFVWVMNIA EGESAVLVTVAWPECEVAVMG SLGSAARGTGKRLQEGGNLQL NFVTIATKLEVSWTELGGGCVS ALFASVGTKREKAGFYQGCSF ASNIMKRGRVKEVEDVQKRLI KMTVEFNLAWSLPPHMAMN GDQGGDRVTHESFLRCMTLMR
9537	39905	A	9597	785	5049	ACRSRMAPQMYEFHLPLSPEEL LKSGGVNQYVVQEVLSIKHLPP QLRAFQA AFRAQGPLAMLQHF DTIYSILHHFRSIDPGLKEDTLEF LIKGVYGSVVSRSQELPAIL DDTTLSGSDRNAHLNALKMNC YALIRLLESFETMASQTNLVDL DLGGKGKKARTKAAHGFDWE EERQPILQLLTQLLQDIRHLW NHSIIIEEFVSLVTGCCYRLLEN PTINHQKNRPTREAITHLGVA LTRYNHMLSATVKI
9538	39906	C	9598	134	382	
9539	39907	A	9599	117	235	KIAAPQLHVFLPFLFFCMRPF AFWQPLPEPLELRPLRLSD
9540	39908	B	9600	1	732	
9541	39909	C	9601	1	420	
9542	39910	B	9602	110	928	

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9543	39911	A	9603	1	868	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSLRLSEMPRKQGD YRTRIWKFEGLSNVLVIQLNK LIICVMCLDLALKGLRVLLVEG NDPQGTASMYHGWVPDLHIHA EDTLLPFYLG EKDDVTYAIYFT CWPGLDIIPSCALHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVIDSAPNLGIGTINVV CAADVLIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFEPPD PTGNRTVQLTWQPLPEPLELC*
9544	39912	A	9604	1036	1119	
9545	39913	C	9605	1	513	
9546	39914	A	9606	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLSRSHFEQWGTLTDCVV MRDPNTKRSRGFGFVYATVE EVDAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMTDRGSGKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSQRGRS GSGNFGGGRGGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
9547	39915	A	9607	1	286	
9548	39916	A	9608	1	1674	
9549	39917	B	9609	531	744	
9550	39918	A	9610	1	818	YNRAMFHPhAVNKIALSLNNK NP\RSKVLFLLELLAAVCLVRGG HKL FYLAFDNFKEVCGEKQRFE KLMEHFRNEDNNIDFMVASMQ FINIVVHVSVEDMNFVRVHLQYEF TKLGLDEYLDK LKHTESDKLS\ VQIQAYLDNVFDV GALLEDAE TKNAALERVEELENISHLSEK LQDTENEAMSKIVELEKQLMQ RNKELDVVREIYKDANTQVHT LRKMVKEKEEAIQRQSTLEKKI HELEKQGTIKIHKKG DGDIAILP VVASAHCPWGQKW

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9551	39919	A	9611	1	937	MALLTLKQQQNEDLQDISHFTT TRTPRQGTTPVQKEKSEETRLEW ARRMLRRDQHSTKGKVVKRM RGFLVGLVYCDKQSGALESLLC LWNVSGNTTLSSLVEIGSKAAL GLVCGEKQRFEKLMEHFRNED NNIDFMVASMQFINIVVHSVED MNFRVHLQYEFTKLGLDEYLD LLDTKSTDRKQTLHYISNVVK EQYHQVSLFYNELHYVEKAAA VSLENVLLDVKELQRGMDFTK REYTMHDHNTLLKEFILNNECK LKKLQDDAKIAQDAFDDVVKY FGENPKTTPPSVFFPVFVRVKA YKQAEENMELRKKQEALM EKLLEQEALMEQQDPKSPSHKS KRQQQELIAELRK\RQVK\DNR HVYEGKDGAIEDIITVSLENVLL DVKELQRGMDFTKREYTMHD HNTLLKEFILNNECKLKKLQDD AKIAQDAFDDVVKYFGENPKT TPPSVFFPVFVRVKA YKQAE
9552	39920	C	9612	47	286	
9553	39921	A	9613	1	423	

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9554	39922	A	9614	1	2015	MPSVSKAAAAALSGSPQTEKP THYRYLKEFRTEQCPLFSQHKC AQHRPFTCFHWH/FPQTRRRR\ PLGRRDGTFNYS PDVYCSKYNE ATGVCPDGDCEPYLHRTTGD ERKYHV\RYKYKTGTCTIHETDAR GHCVKNRLHCAFAHG PLDLRP PVC DVRELQAQEALQNGQLGG GEGVPDLQPGVLASQAMIEKIL SEDPRWQALLPVALLRHRVAH FSDANFVLGSYKTEQCPKPPRL CRQGYACPHYHNSRDRRRNPR RFQYRSTPCPSVKHGD EWGEP RCDGGDGCQYCHSRTEQQFHP EGPVRESGVRGVFCVQSRRPW LQTPVSGTQLKWSWHHVGH SR TINPEGDKPSRLGPAPENIKRGN DFACDGRADAAGMAPHVCVFP IYKSTKCNDMRQTGYCPRGPFC AFAHVEKSLGMVNEWGCHDL HLTSPSSTGSGQPGNAKRRDSP AEGGPRGSEQDSKQGVRAHGV YVFEQNH LAFVAAVHPPAPSVS SSVASSLASSAGSGSSSPTALPA PPARALPLGPASSTVEAVLALE PTPSSPTSSAVQGVAGELGMGS GGQGCWSHVVGALAAVPAWT HSGDLEWDPSTIRTRVNVGGGP AARPAMTLAREPQLLVVGGCP TRNCSGPAAS PQQLDDAGQG GRGERDSSQRPLRPQTTHRQDT
9555	39923	A	9615	2	609	IHSLCVSPCLSPCHCLSLSPASLL VSFFCCLFLMTLFP SLVCGSLP VHLLPSL/HFLSQVLNEYFHN V CELDLVFNFYKVECFPLKSPVV PESKEIGSQVDGQSRMEQRSPA HTNRENDIAREGGSEETHSKPG KGNLEFRFRCSHLQLGECPIPP WQKERTIAQGPEPEARA AVPA GRHDTRHAVNAGCALIGSLRRP WGGA
9556	39924	A	9616	60	277	
9557	39925	B	9617	43	354	
9558	39926	A	9618	3	309	GGGQGRPGAGGQGRSDGGGQ GSPGGGSQGSPPGSGGVGQGS RGGQGKPGGGGGQGS PDGGGR PLAGGASGRRGSRGQAQ/CPISV SATHLAF
9559	39927	A	9619	36	363	

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9560	39928	A	9620	1	512	MLMPGLSACVRDCVAFQLQAVV LGDPSPAACQCDTWTLAASAD GTCKAVGTEDGSVYFISVYDKE SPQVVHKAFLSESSVQHVVYD QQGIFLLVGTAEGKVFIINANSS SSFQIIGFT/DGGQRHFTDIHSVS FRNRHSGSDGAFLASRSREKQV GDVHTAYITATSFHNL
9561	39929	A	9621	1	822	MKLGV/QVVITDHEKLDQIRQR ESD\ITKERIQKILATGANVILTT GGIDDMCLKYFVEAGAMAVRR VLK/RIAKASGATILSTLANSKA HTSASIILRGANDIMCGEMERSL HDALCVVKRVLESKSMVPGGG AVEAALSIYLENYATSMGSQKE LAIAEFARSLVIPNTLAVNAA QDSTDLVTKFRAFHNQAQVNP EHKNLKWIGLDLSNGERGDNK QAGMFPTIVKVKSLKFATEAA ITILRIDDLTKLHPESKDDKHGG YEDAVHSGALND
9562	39930	B	9622	625	1162	
9563	39931	A	9623	202	402	
9564	39932	A	9624	350	652	SAGGYPDGQGVHPGPPELFAAL GRLGHTLREHGHLLRYHRPG HMGRPLPCRMGHREPGSLH* QDCPRAWQWCWPHRPGHLQD VPPPGIHLQRLSQPGP
9565	39933	A	9625	83	1503	SWNTPYNHWATKQ/LSSHYSR GGAKYEGEAVKQSLVESYTHP NSNETERSANIDTVMNWFTKE DFDFVTLCYREPDNVGHRFRPE AENRKLMIQQIDRTIRPWDDHR EETQCQDPLSNYIKFMDLVK FDIVGYGGFGMPLPKLGQEEAL YQALKNAYPHLHIYKKEGFPEH FHLAKHDRVLPIVMYANFGYSI NGISLLYFYTHLCDKYFNVHFF HEPLSLWRAQTTPSLSHRYISLV RHMDATNLDASEAQLPGSPYP DSAPGPANLDSTQDLPQRRLSW PYPRPRPPNAHPGALQAPRTL LLTLPPGPAPSLPPRTALGPPPL QSRPGFRPVSRQRCGPAHFMAP EENAGTELLQLQSFERFLAART LRSFPWQGGGGRAERPAGLAG VQGQTGWVSVLKPPALLPREFL GSPRSGPRDPVPVPGA WPKSLA PLLPRELAAEDEGVSTALGGQT RARCGVQFTIIFTTF
9566	39934	B	9626	1	1177	

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9567	39935	A	9627	1	283	
9568	39936	A	9628	1	708	MPKGKEAKGKKLALAPAFVKK QEAKKVVNPLFEKRPNFGIGQ DIQPKRDLTCFVKWPRYIRLQW QRSILYKQLKIPETKQEKKWRL LAQAE/SVGKGDLPKRLPVFR AGVNTVTTTFVDNKKAPLVVTT HMDMPIELTVFLPVLCHKMGA TCCIIKGKARLGCLVHRKTYTT VDFTQVNSEDKGALAKLVEAI GTNYNARYDETHCHWDGNVL GPKSVAHIAKLEKAKAKELAT
9569	39937	A	9629	1	836	GTRPKMPKGKKAKGKKVAPAP AVVKKQEAKKVVNPLFEKR\PK NFGIGQDIQPKRDLTRFVKWPR YIRL\QRQRAILYKRLKEPPAIN QFTQAL\DRQTATQLLKLAKH\ YRP\ETKQEK\KQRL\LARAEEK AA\GKGDVPTKRPPV/LFRAGV KQSPPLVE\NKESFLVVISH\D VDPIELVVFLP\ALCRKMGPVY CIIKGKARLGRLS\HKKTCTTVA FTQVNSEDKGALAKLVEAIRTN YNDRYDEIRRHWGGENVLGPKS VARIKLEKAKAKELATKLG
9570	39938	A	9630	3	119	
9571	39939	B	9631	1	711	
9572	39940	B	9632	97	942	
9573	39941	A	9633	1	588	
9574	39942	A	9634	1	1029	
9575	39943	A	9635	1	1031	MADQKEARHSASQWKCFVGFL SFRGHMQVAWEADRCKGPGRP LLAEALQDLWSPRRSQRPVP ERPCRRPQQSPLPRFGSLAPLH RENNFIKDFPQLADGLLVIPLV EEQCRGVLSEPLPDLQLLTGDIR YDEAMGYPMVQQWRVRSNLY RVKLSTITLAAGFTNVLKILTKE SSRELLSFIQHYGSHYIAEALY GSELTCTIIHFPSKKVQQQLWLQ YQKGFLGEPKKILGSSLPRRTQF LWKNNHLITKQTVSILSCGEAFI LRKGQQISFSSDSQLLSELEFLR PGAGDQSLPHTLVKVIPFPQFS L/LCEMGTFILFCNINCAWGRG RGERYSQSC

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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9576	39944	A	9636	3	4091	FASASAVSAAASSSSFATAATA AAARSTAAPPAMAAAGARLSP GPGSGLRGRPRLCFHPGPPPLLP LLLLLLLLPPPLLAGATAAAS REPDSPCRLKTVTVSTLPALRES DIGWSGARAGAGAGTGAGAA AAAASPGSPGSAGTAAESRLLL FVRNELPGRIAVQDDLDNTELP FFTLEMSGTAADISLVHWRQQ WLENGTLYFHVSMSSSGQLAQ ATAPTLQEPSEIVEEQMHILHIS VMGGLIALLLLLLV
9577	39945	A	9637	2	398	SDARVDALNKIKIWERIKKHLE GHSTNLSLDIAKLKEQIFEASQA HLTLMPGTGVLEGAADRLSAS NPLKWIKTLGSSVISMMIVLLIC VVCLCVVCRCRS*LLREVAHRD KAAAFIALQIKEGEHVGNST
9578	39946	A	9638	201	495	WKKTLMPTGTGVLEGAAN/GLA AINPLKWIKTLGDSVISMMIVLL IC/VCLCIVCRCRSRLREVAHC DKATFAFIISEKMWYFGFCFCN NSLRVIASSCIH
9579	39947	A	9639	3	409	GIYILHQKKTWEK\LLLAACAIV AIENPADVSVISSRKTGQKATPL FAAVTGATLVAGCFPTPTFSNQ ISAAFREPQLLVVTDPRADHQP LTEASYINLPTIALCITDSPLHYV GLAIQCNNKGAHSGGLTCNLS
9580	39948	A	9640	3	438	
9581	39949	A	9641	288	489	SFRPLSVLGDCVVRGPTKPSGK CSPASRSLFVRRHILLHPQGLH NLDQNKATPPPQPLAGHQTAC
9582	39950	C	9642	23	411	
9583	39951	A	9643	1	209	SPSTTAVCCPPRPSIDFHSSGSSR VSAALLIQ/QRFPPLWIGLKAR HCSCGLRQRQVSWQETEDGK AG

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9584	39952	A	9644	28	925	PEAGTRSWREPDPEDLRRFLLS AACRSFPQWLPGGGGGQVSSC SDTDVPYLLLA VKSEPGRFAER QAVRETRRKPTS\GIRLLFLLGS PVGEAGPDLNSLVAWESRRYS DLLLWDFLDVPFNQTLKEP/VL WLPGWAGPCPTGSFVLRAQDD AFVHTPALLAHLRALPPASARS LYLGEVFTQAMPLRKPGGPFY VPESFFEGGYPAYASGGGYVIA GRLAPWLLRAAARVAPFPFED VYTGLCIRALGLVPQAHPGFLT AWPADRTADHCAFRNLLLVRP LGPQASIRLWKQLQDPRLQC
9585	39953	A	9645	1	1612	MIFVVIILMVVLSPEGGSGLDSS PFLSEANAERIVQTLCTVRGAA LKPYPPTGPNFRYSHGVPPHLF AYFPPGSTVSQDNSFISPLQHI FERVRQSADFMPRWQMLRVLE EELGRDWQAKVASLEEVFAA ASIGQVHQGLLRDGEVAVKIQ YPGIAQSIQSDVQNLLAVLKMS AALPAGLFAEQSLQALQQELA WECDYRREAACAQNFRQLLAN DPFFRVPAVVKELCTTRVLGME LAGGVPLDQCQGLSQDLRNQIC FQLLTLCRELFEFRFMQTDPN WANFLYDASSHQVTLLDFGAS REFGTEFTDHYIEVVKAAADGD RDCVLQKSRDLKFLTGFKAF SDAHVEAVMILGEPFATQGPYD FGSGETARRNQDLIPVLLRHRL VSP\PEGDLWPWHRKL\AGAFL ACAHLRDHIACRDHKGHLPLPL LGQSPARRSHCRQPPHQRGTPG WIPHDSLHGGFSPQSRPYPAVV PLIPSPSALGQRSPLGLPSLAWL SSLAQELRIPGAGELPTSCPRSC TSPLESEVSEN
9586	39954	A	9646	930	1123	GVRRDGSSASVTVGQPCRDTSL AFETVAGPYLA*KT*TSGKPGS D*RASKVAGGVQNGTRTTAT
9587	39955	A	9647	719	1346	

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9588	39956	A	9648	1	823	MKKVLIAALIAGFSLSATAAETI RFATEASYPPFESIDANNQIVGF DVDLAQALCKEIDATCTFSNQA FDSLIPSLKFRRVEAVMAGMDI TPEREKQVLFTTPYYDNFALFV GQQGKYTSVDQLEGKKVG VQ NGPTHQKFIMDKHPEITYVSDE SYQNAKLADLQNGCAARAAPG SRRYGGWTIQASTARPSDVLLT ADSVSFAVRSRGAAATAYHRC CLSGVMVNAATACEHSTASQG RASRTVTD SADPHPRSVRRRAS FRRSGRGFCGTVR
9589	39957	A	9649	583	730	
9590	39958	C	9650	333	439	
9591	39959	A	9651	2	171	
9592	39960	A	9652	1	826	MGGLFWRSALRGLRCGPAPG PSLLVRHSGTIMGVFVAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRLVGDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQDLRRKPFPPCPSSR YMSSGPV VAMVWEGYNV VRA SRAMIGHTDS\AEAAPGTIKGV DFSVHISRNVIHASDS\EGAQR EI\QLWF\QSSSELVSWAD\GGQH SSIHPGLRLRAALTTPSPTQDPT YPPLARTPSPTSKPALSPNPLTS PVSPLAPPQAQREF

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9593	39961	A	9653	144	1650	NCETTTKGSAILRNVDPSTLLPL RRAGSSPGLMPVEEEMEIDE EK QMKGFLDDSERMAFLVSLHLG AAERWFILQMEVGEPLSHENKS FLRRSQGIYDSLSEIDILSAVLC HPKQQQKSVRQYATDFLLAR HLSWSDAILRTRFLEGLSEAVT TKMGRIFLKVAGSLKELIDRSL YTECQLAE EKDSPGNSSQVLP ACKRNNEEAMGNELSSQQQTE EHQHVSKRCYYLKEHGDPQEG LHDHLGQSTGHHQKAHTNNVA ATKKVVQQLQLEAGLNSVKVS QAATEPQTIISPPNALQEPSGIE WEQFPKAQIPSEPQENLCPFVST MNSIKGLHEDYQGNAGKVLST VPGRRYALQNLGTAIVQGEER KQSSLCPGEEGKRHELRS GSHS LVMKHAMVLFNVGFETKDQIH LPTRLGMAEVETLCIYAKQLPH KLIAKLRLLKGTRPLSLNNEHIL THPGLEGWLHTEFFRILSINNKY HLSAYLVQSIVLHVMGFHRKT
9594	39962	A	9654	8	440	VFERSTPPTLETVRSKQEWETR LNGVRIMKKNVRDQFN SHIQL VRNGAKLSSLPQIPTPTLPPPPSE TSCFRCFNPVPLWLLGCPSP LG RQTGEDPGEAADPVPTVQ*GPD DQHSSADQDSTYHHGRPDHGG TYPVGCCTTGRT
9595	39963	C	9655	89	389	
9596	39964	A	9656	1	184	
9597	39965	B	9657	1	942	
9598	39966	A	9658	424	614	NDGPDWGGRRRET DVNRKRGF KISKTLYLYSDIY SCHVHFYYIG NVCIESLYSNVRK*NYVYY
9599	39967	A	9659	1	717	
9600	39968	A	9660	103	374	
9601	39969	A	9661	1590	2051	SYPVSEERSQAEQPSSNPYSHFT STPIRDLHASGVSTQSLSGSSD ALLHWAGHNAHG YAQCRSPLL VFPNPEPCFPFAQPAFLTPSWLP WQK*PWLGFP CQPPRSTHAPCR LHPTSP\GLGGVKASAETPRPQP VD/ETGEDPGEAADPVPTVQ

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9602	39970	A	9662	1	2912	MAQALPWLLLWMGAGVLP GTQHGIRLPLRSGLGAPLGLR LPRETDEEPEEPGRGGSFVEMV DNLRGKSGQGYVEMTVGSP QTLNILVDTGSSNFVGAAPHP FLHRYRQRLSSTYRDLRKG YVPYTQGWEGELGTDLVSI GPNVTVRANIAAITESDKFF SNWEGILGLAYAEIARPD PFFDSL VKQTHVPLFSLQLCG AGFPLNQSEVLASVGGSMIIGGI DHSLYTGSLWYTP
9603	39971	A	9663	1	902	MSAKEKGKFENMAKADKVHY VREMPTYIPPKQETKKKFKDPN APKRPPFS/SEYCPKIKGEHPGQ STGDVAKKLGMRTNSAADDK WPYEKKAALKKEKYRKDTAV YRAGKGPDAAKKGDVKAES KKRKNEKDEEDEDEDEDEDE DDDNEYADNECTGFSGFVYKT FNSPVHNSLFLNVEIHALGFDEL LESIFCILLVVEVFSLQKGVAML EEVVNGERSGRSLPWLPAAPS LPVPVPLGLRHPPSQSDNLSLQ LTFLTALRLRLPRLGAVLEETV EDGRTKTNLDPENSVPFSPET
9604	39972	A	9664	146	733	LNMKGKDPKKPRGKMSSYAFF VQTCREEHKKKHPDASVNFSEF SKKCSERWKTMSAKEKGKFED MAKADKARYEREMPTYIPPKG ED/TKKKFKDPN\APKRPPSAFF LFCSEY/RAPKIKGEHPGLSIG DVAEETGEEMW\NNTAADDKQ PYEKKAALKKEKYEKDIAAYR AKGKPDAAKKGVVKAERSTR PRIPDL
9605	39973	A	9665	30	359	
9606	39974	C	9666	418	555	
9607	39975	B	9667	550	1717	
9608	39976	B	9668	1	1705	
9609	39977	B	9669	328	484	

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9610	39978	A	9670	5	1215	IIVLPKMSMPVVSAQLTITSIPP WAVE/WGNVTLVQGIQNLIS YNWLRGATTNQVTRILNFFFS HGYTLGPAHTGRETGRADGSLI IIDVRASDNGIYTLHLISSGE\KV AIMLCYLSLLVAPWHFHKTPR WRFPWGPRAASQRASCSQPQS WSSGCSK/VSQAALYIQIPEQP QKNQDLLLSVQGVDPDTFQDFN WYLGEETYGGTRLFTYIPGIQR PQRDGSAMGQRDIVGFPNGSM LLRRAQPTDSGTQVVAITINSE WTMKAKTEVQVAEKNKELPST HLPTNAGILAATHIGSLAAGALL ISCIAVLLVTRNWRGQSHRMAT TEKPELGPAHDAGDNNIYEV PSPVLLVSPISDTRSINPARPLPT PPHLQAEPENHQYQQDLLNPDP APYCQLVPTS
9611	39979	A	9671	1	558	EGGLRTPSNPYHVDISQTKPCH *TNHCIOKEYSKNYGKYEEGNE MFFKEFNQYLTSALNITLESSIL LQIKHII RNCLLSVEPAISTKHLP YQSFQLFGFDFMVDEELKVWL IEVNGAPACAQ*ACTSLCFYKW EVGSAVGIVCGYKCSHFDCCEG GCHSDRRPLGGLYLAGGFAESL PFLFPRV
9612	39980	A	9672	1	534	MVGVDVTFKVISREERQTQRL GSSSPKRCPLEQEFEHEYSSFFG RNCLLSVEPAISTKHLPYQSFQL FGFDFMVDEELKVWLIEVNGA PACAQSPAKSL/CATSSSLFLSPP PWTCQQHSRQPTALAELLSCH GWTRGAGQACLWAFVLSVTC VWNPHHHYHHHHQPYRGWLL LYQNIL
9613	39981	A	9673	624	805	SGGHPGHWLPPNPMASPGATT PVGEG/ELQYASLSFQMVKPWD SRGQEATDTECSEIKIHR

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9614	39982	A	9674	1	1005	MENRRKVKGEWIAVPQPVKEL RGVLNAATTLSKTRILRGKCF QLTSPTGNEPSHLSWTPRKRSR DGHGCPDPLAASGARPLRSSS AFAAAAADSGSTVQVWDKGV LRVADVWSTIEPVTHVNLGWA AKVGPIISHGSAVISAFSKEGMF RIFSERKTLLAKLRDFQNTQLR KLFSEMEKAAGRSQSGVSFGQ KGLGDRACEEMSENPOKGRKK PKAPQEVSFRENGNWKTP\SIFF SPKTPRKKKSF\SKEELMS\SD\L EETR WQAPSIPKRKKSTPKEET VNDPLE\AGH\SGSKKKRKFS K\EEP\SSGP\EEAAGKSSSKKK- KKFHKASQED
9615	39983	A	9675	1	2742	
9616	39984	A	9676	1	405	MADIPQEARQYRHKQAYAYSI QGEGVEDDDERIVRFHTRWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFYQKVGDN SIDSWKNAGR/VLKDSDFDAN DPILKDQTQEWSGSATFTGSVF LAFGCYSK
9617	39985	A	9677	3	642	GKGLFDDDEESDLFMEAPQD RQAGASVKESSSSKPGKKIPA GAVSVFLGDTDFGAASVPSLK EPQKPEQTPRKSPYGPPTGLF FFSAPHSKPSKTRKVQSTADIFG DEEGDLFKEKAVASPEATVSQT DENKARAEKKVTLSSYNLKP SSETK\TQKGLFSDEEDSEDLS SQSASNLKGASLLPGKLPTSVS WFDDDEEDNLLGVQ
9618	39986	B	9678	175	1422	
9619	39987	A	9679	1	3096	MVTHQQPAARKPNMTSKPKP MGPKAHGIFSGTRKNNLEIYMD QTRTGIATKLSKNNKSGGMT LPDFKLYYKAIVAKIACGGS MYNSDTDEDEETEPSSSGQIIEN SITMNMKMLLKAKMKNMNLSSK KHITQVSDEEEDDDGCDLFADSE KEEKDIEDIEENTRPKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRGKNQDAYTEGGLS TIKTVNCSSSLPSGEAKLRKTL/ KEKKERRTPSDDE
9620	39988	A	9680	1	2925	
9621	39989	A	9681	2	688	
9622	39990	A	9682	1	1005	
9623	39991	B	9683	1	588	

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9624	39992	A	9684	1	2763	
9625	39993	A	9685	2	1075	NSDEELLFSHKLQKDNDPDVDL FAGTKKTKLLEPSVGSFLGDDE DDDLFSSAKSQPLVQEKRRVV KKDHSVDSFKNQKHPESIQGSK EKGIWKPETPQ\AHQVSLHLKP NEPSTRIGKIQANLAINPAALLP TVAASQIS\EVKPVLP\ELAFIPSS EHRRSHGL\ESVPVLPGSGEAG VSFDLPAQADTLHSANKSRVK MRGKRRPQTRAARRLAAQESS EAEDMSVPRGP\IAQWADGAISP NGH*PQLRAASGEDSTEEALA AAAAPWEGGPVPGVDTSPFAK SLGHSRGEADLYDSGDIFSRAP GSQ/SVERPNPRQRSRDLPPPGW KQRPRSGKQPRKRSP*QPKHP LPKGR\TSSPW
9626	39994	A	9686	1	4086	VTPRAAWLGLGFRGSAVLGLC WQPRSPPSRAAGMMNR\TTPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQLQ\EFSSQ TISR\THEIKKQVDGLIRETKATD CRLHNVFNDFLMLSNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLIPKVQEAVNYG LQVLDSAFEQLDIKAGNSDSEE DDANGRVELILEPKDLYIDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
9627	39995	A	9687	1930	5781	RAKSPANIIMTGSNSHITILN VNLNSPIKRHRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKV\NKDTQ ELNSALHQADLIDIYRTLHPKST EY\TFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLS\DHSAIKL ELRIKNLTQSR
9628	39996	A	9688	1	3654	
9629	39997	A	9689	1	5127	
9630	39998	A	9690	1	3663	

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9631	39999	A	9691	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
9632	40000	A	9692	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKRTEIITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLLNDYWVHNKMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTDRPLARLIKKKR EKNQIDTIKNDK
9633	40001	A	9693	1	3235	
9634	40002	B	9694	1	3300	

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9635	40003	A	9695	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVEESLNRPIGTAEI GAIINSLPTKKSPGPDGFTAIFY QRYKEELVPFLLKLFQSIEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQQPFMLKTL NKLIGDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCP SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRNIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITIQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKKSGNN
9636	40004	B	9696	1	3420	
9637	40005	A	9697	1	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAPIPKAQV SSTEKLNRNCIDDLKPPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSSEDQGPTREVI AQLLEDALQVESQEQPEQAFV KPHLVSEYDIYGFRTPEDDEE EKLVAKVRALDLK
9638	40006	A	9698	1	4371	

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9639	40007	A	9699	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITTDPTIEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLLKLFQSIEKE GILPNSFYEASIIIPKPGRDTTK KENFRPISLMNIDAKILNKKLA KRJQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKAFDKIQQPFMLK TLNKL\GIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNK WKNIP CSWVGRINIVKMAILPKNILITL QLLLVLPELSTLIPLWLPALAGQ
9640	40008	A	9700	1	4449	
9641	40009	A	9701	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNNLLL NDYWVHNEMNAEIKMFFETNE NKDDTTYQNLWDAFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
9642	40010	B	9702	1	2858	
9643	40011	A	9703	1	3354	
9644	40012	B	9704	288	3301	
9645	40013	A	9705	1	3457	
9646	40014	A	9706	1	4794	
9647	40015	B	9707	1	3384	
9648	40016	A	9708	1	3345	
9649	40017	A	9709	1	3780	
9650	40018	A	9710	1	3720	
9651	40019	A	9711	1	3894	

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9652	40020	A	9712	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKETQ
9653	40021	A	9713	1	3780	
9654	40022	B	9714	1	3855	
9655	40023	A	9715	1	3345	
9656	40024	A	9716	965	4362	TWKGTTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYFFSAPHHTYSKI DHIVGSKALLSKCERTEIITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLELEKQEQTHSKA SRRQEITKIRAELEKETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
9657	40025	A	9717	1	3921	
9658	40026	A	9718	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNNL
9659	40027	A	9719	32	583	GPHGAFTHGRR/RFGRDPYEGP RRTGKRKQKSARGCIVDANLSI LNLVIVKKGEKDIPGLTDTMVP CHLGPKRASRICKLFSLEDDDD VHQCVRKALNKEGKKPRTKA PTTKYLVTPHVLQHEWWHIAL KKQRIKENKEVAAEYAKLLAK RMKEAKEKHQEQIAKRRRLSSL RASTSKSESSQK
9660	40028	A	9720	318	605	

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9661	40029	A	9721	1	649	MGLKGQGV EGGLLRQSGSVSL QPLSREDLGRSQSESLGPEFQGL WEWLPVERVERENLSDYCVLG QRPMHLPMNQLASLGKTNEQ SPHSQIHSTPIRNQVPALQPIM SPGLLSPLSPQLVRQQIAMAH LINQQIA/S*PAPGSPASSSHQPA VPEPS/IPSPEQLSQSQPTLPWKS LQISTSKSEMS*RGVPCPKLSLQ EWHSTAHRNLKTWKKD
9662	40030	A	9722	15	272	KPQWPGIPSGPPPPGSCFKC*KS GHWAKECLQPRIPKPCPICAGP HWKSDCSTHLAATPRAPGTLA QGSLTDSFPDLLGLAAEG
9663	40031	A	9723	96	531	VQPADLLRPLHTDTCNIWCQRP GTEGLLRETGPLSS/PLTP/MRRS TYDLRSSDQPKHLTDFKSGSC FKCRKSGHWTKECQQPRIPPKP CPICAGPHWKSDCPCSPAATPR APGTLAQDSLTDSPFTDPKGS LI DYFPDLLCLVAED
9664	40032	A	9724	3	567	GRLQTGADPAWRVHGTWRSTS AADAIDQMWPVPMRTWRLNE RHYGGLTDLGKAETAAKHGEA QVKIWSNISKDRRYADLTDDQL SSCESLKDTIASALPFWNKEIVP QIKEGKWVLIAAHGNSLRGIVK HLEGLSEEAIMELNLLTGPIVC KLDKSSKPIRCMEFLGDEGTLC KAMEAVAAQ GKAKK
9665	40033	A	9725	2	801	GGVPHQPAAAMAAYKLVLRH GESAWNLENRFSGWYDADLSP AGHEEAKRGGQALRDAGYEFD ICFTSVHLYAIRTLWTVLEMP SEMWLPPVVRTWRLNERHYGG LTGLNKAETAAKNGEAQVKIW RRSYDVPPPPMEPDHPFYSNISK DRRYADLTEDQLPSCDRLKDTI ATALPFWNEEIVPQIKEGKRVLI AAHGNSLRGIVKHLEGLSEEAI MEL\NLPTGPIVYELDKNLKPI KPMQFLGDEETVRKAMEAVAA Q GKAKK

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9666	40034	A	9726	3	573	VAPVVQVWKEMHKLLPFSPDS VVTHGDISIDSGIFDQDKLIGRI DVGRVGIACGCQDVAIVWNYL AACSVDRNTCRIMRPNCRPEVE ETPGLKEEKELSQPKEGEATDL KKEVEKISSSEEEETVNLKEEVE KIPPEEETMDLKEEKEEIPPEL RDQKLMHVLKDLEPVSAVPHK DSLFGQLTTVPV
9667	40035	A	9727	2	685	TLYCRVFLLDGTEVSVDLPKHA KGQDLFDQIVYHLDLVETDYF GLQFLDSAQVAHWLDHAKPIK KQMKIGPAYALHFRVKYYSSEP NNLREEFTRPKITKMDFKKSKL TLVVVEDDDQGREQEHTFVFR LDSARTCKHLWKCAVEHHAFF RLRTPGNSKSNRSDFIRLGSFR FSCFS/ERENAHSTGNPALRER PGDGSVSREGRWVDEGWQRP GGRGQNALCSVP
9668	40036	A	9728	1	419	MSKFGRATRGLRKPEVGDVIRT IVRAGLAMPGPPLGPVLGQRR SINQFCKEFNERTKDIKEGIPLL TKIFLKPDTFEIKIGQPTVSYF VKAAAGIEKGARPT/DLSSEFA AFQKEQAIFLAAQKKADLATQ EEAAKK
9669	40037	A	9729	97	826	SQLPRIMSKLGRAARGLRKPEV GGVIRAIVRAGLAMPGPPLG\N VLGQRGVSINQFCKEFNERTKD IKE\GIPLPTKIL\VKPD\RTFEIKI GQPTVSYFLKAAAGIEKG\ARQ TGKEVAGLVTLKHVYEIARIKA SGLRAFALQDVPLSSVVRSIIGS ARSLGTSRGERTSSSEELAAFQ KERAIFL\AAQ\EADFGLPKKE AAKEIDPLPHQLPDFQKEVSLQ KLCPRGGRRSHQYDDGFHDFE
9670	40038	B	9730	273	418	

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9671	40039	A	9731	69	1565	RRRRFQASGAAAMLSSRAEAA MTAADRAIQRFRLTGAAVRYK VMKNWGVIGGIAAALAAGIYV IWGPITERKKRRKGLVPGLVNL GNTCFMNSLLQGLSACPAFIRW LEEFTSQYSRDQKEPPSHQYLS LTLHLHLKALSCQEVTDDEVLD ASCLLDVLRMYRWQISSFEEQP HFQDGLVQLRVGVVCRHYPEK WEAASWTSQNCGADDAHELF HVITSSLEDERDRQPRVTHLFD VHSLEGHPLTLDHCLHHFTQSE SVRDVVCNDCKIEAKGTNG EKVEHQRTTFVKQLKGLKPQ CLCIHLQRLSMVQPGTPLKRHE HVQFNEFLMMDIYKYHLLGHK PSQHNPKNKNPGPTLE/HAGW AGSPHTSSESARGPQNTDFYEW RLLPIFIANA VSADALPSPCSR LQLLHIPLPADGQLSSTMGDMA LWDTLFIYRRSPPSARNPLSTSN QWLWVSDDTV RKASLQEVLS SAYLLFYERVLSRMQHQSQEC
9672	40040	A	9732	1	1393	PLQLQPRHIGAQIQLGPLLQRV QAIRLG SFH MVSLW/VMQSAR VEILEPPRLQRMYGKAWRISL CPQGLSTVMRSELTASSTPQVQ EILPPQSPEYLGPKGITERIHKIM HVKGLAKLPANRNQSPGVSG KRLVNCVSASAVDSEPAAVPEP DVCAGIVIKKQCFPIARCNT KQVDSIPHRA YAKSPFFPAVV VVTSESKDPRVKQNP THPLLA GSNAAHFHKT KISQSLKWLPVG YLNSTTYEYRDLTKGLSLLCSL LLGVEADIPSMAGLHVRHLMQ VPQQPCIAFAVSSPLHQGGKET EDAWSFHIPSTIHRWPTSPSVQL SSLRASTQLLCLHINLAKCFIWG ILAQVLSCHHHRITQFVGMLTF VCAGDSSKLSPDIRTLVRR LTS YLVASVLLKSKQMALCSASRI LDVSVSPGDHVASEARARCAP DLVAPRPMHQNQGSLEWTEE
9673	40041	A	9733	44	282	FSCLILHDAFPCLILHDAFPCSL CSV TGS L VLSRVPLRGTHQKSA IATSTKIALSNM/KILKHHTDAY FKKQQLFFDVSKK

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9674	40042	A	9734	3	381	EQQGQR/SQWWRGAA RVSRTV KRVLCE/VVECPLKSACPDVDM YWAALQRLASLLKADGNLVT MAALHSHYMGVSKKFFGLHPE KETVEKAMQEAGCQVQRCA/SI SCSETCSINDGICFVAACKGPSV
9675	40043	A	9735	2	209	CRHSTQHCVS/HHGHSQYK/DS HQHYSHYHHHNHPHHHHQSPY LHHHHYDCHLHHHHHNDHYH RHISVYDI
9676	40044	A	9736	197	3348	RVVQTDMIKGMLETSLKISLD QAFIRICLNSTCFRPGKGLVIK/C EKSINSASLVSTSQRISCRPKTHI SKNYGNNFLNSSLLTQKQEVH MREKSFQCNESGKAFNYSSVLR KHQIIHLGAKQYKCDVCGKVF NQKRYLACHRRCHTGKKPYKC NDCGKTFSQELTLTCHHRLHTG EKHYKCSECGKTF SRNSALVIH KAIHTGEKSYKCNECGKTFSQT SYLVYHRRRLHTGEKPYKCEEC DKAFSFKSNLERH

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9677	40045	A	9737	1	1665	MAGACWLMAFQYWVLKLLVV KSA/SWPRQSSLKWNWNFKGC QDLETWGKKETRFYGYRRNE EAQKYSCRIPKPD*WCHCWQ W**WLMAFQYWVLKLLVKS AYGLVKALSNGIGISKVAKTW KPGGKKRLENFMAIEEMKKHR STHVGFPENLTNGATAGNGDD GLIPPKSRTPEQQFPDTENEE YHRDFSKLCLGSAANGVVHVE VKMCVYNGKGERQEEKMKGLI SMNLVVEEMKKHESNNVGLL ENLTNGVTAGNGDNLIPQRKS RTPENQQFPDNESEEYHSLGDK SKTSFQNSNNNNKQQEQQQQ NPTFSNTRKLTLYKAPIPPSIIL SGCPNINDSNWQIEHGMQTA GLPTRPLSHGLQQKGAAFRC LG CKCSEPFTGSLILQKAKTNTQK WQATYPKSQNEQLVPSVGKSY RCSTPAQPMKTAVGHKPKCAT GAELPKALGAQPLHPCALDVG QGFKKGNFGAVGLNGLLGLF HGVSGVLLVGP GDGGLISEGVV REDLMCGVWSAGTWSVGTAE RCLEKPGALHVIEGPLDSWDGP VMPNGPVKSRQSSCLDGPGR CSEILTGQSHGNKKPARASSKS SQSINDRPLAVLTNQYQCEQLA SERQPSSNSCSIRIDSA
9678	40046	A	9738	1	115	RRTARGPQQTSTDGLGTSPCRN ASEHTADILELSTLIV*RRQ*ICL CLDFLYY/LIPEGRCFCRACDLV HNFDTIILQHQRTLTSQGVDDF LKAKATFKASDFIDALVLSKVA SPRILIQGGRMGA*DQVSDQAS VYGRCSSSGAEAAKRPKSAWL LLGYDSRASGLY*ILYNLT KHP D/YRECCQPMQES*S*RR TAR GPQQTSTDGLGTSPCRNASEHT ADILELSTLIV
9679	40047	A	9739	1	506	MVIVGLAAGVLLVGP GDGGLIS EGVVREDLMCGVWSAGTWSV GTAERCLEKPGALHVIEGPLDS WDGPVMPNGPVKNHKGEEQE VPSKHPQMALEICLCLDFLYY/L IPEGRCFCRACDLVHNFDTIILQ QHRTLTSQGVDDFLKAKATFK ASDFIDALVLSKVASPGS

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9680	40048	A	9740	1	380	KFSRPSVNMLRIVKPCITRG/YP NLKSVNKLIIYKHGRGKINKKRI ALTDNTLIDQSHGQYGIICIEDLI HELY\LWPFKLSSPQSGMKKKKT THFVENGAANREGQIHRLLIR MNCGVYRDYFSNLVS
9681	40049	A	9741	3	279	
9682	40050	B	9742	23	197	
9683	40051	A	9743	2	402	CGDRGALRPPSCAGRSGPGPPR PPRPPRPLPWHAPPAPAHGAPLA RPGARARRSEKPPSEKPLRLRSS PRAQEEGPGPEPPPELALLPPP PPPPTPA\PRRPRRP\PGPGRAAG ALGDVPEAAEAYLERVPPSSC
9684	40052	A	9744	1	660	
9685	40053	A	9745	1	1035	
9686	40054	A	9746	1	2575	MRAAGGAMLCGKQGRWDPEG EGAHPGFIPKLACSSQGVFRQL HLRTAVTAAVSRHFPQPSWRY DPGPQFLGEKSGFKPRCPGVAV CQFQSMNAFIHWFRNKA WASS CDRIKIPVPPEATFVEPNCLPGEI GQLLRQLQSGRNLKEWLREQF CDHPLEHCEDTRLHDAA YVGD LQTLRSLLQEESYRSRINEKSV WCCGWL PCTPLRIAATAGHGS CVDFLIRKGAEVDLVDVKGQT ALYVAVVNGHLESTQILLEAGA DPNGSRHHRSTPVYHASRVGR ADILKALIRPAACDRSVSITADT HFRYLIKVVPAMFRSRKAIPFLS SCTAWRCADELQFIQPVPLVDT SGSGKTVSNVITESHNSDNEED DQFVVEAAPQLSEMSEIEMVTA VELEEEEEKHGGLVKKILETKKD YEKLQQSPKPGEKPSATGWHG ECLGTRNRAQGALVGWGWLY SERHSGMLRAITLKYKGGGRQ GIQA/AWKSETFRSRAAPENPL GRWGFALLSKIIS*RQVLAKLHF SLSPQARVNSRFPGSGKAGLGL WMEGARPSGHVPKERVVAGK RPQVPTKAHHTCVRETAGNQE GNEGALQQEQRLGVAEAGSN GEGALQQEHRITDCAVEPLKAE LAELEQLIKDQQDKICAVKANI LKNEEKIQKMERSLFESAWKKE KDIVSKEIEKLRTSIQTLCKSAL

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9687	40055	A	9747	2	1739	MKGLYTDAEMKSDNVKDKDA KISFLQKAIDVVVMVSGEPLLA KPARIVAGHEPERTNELLQIIGK CCLNKLSSDDAVRRVLAGEKG EVKGRASLTSRSQELDNKNVRE EESRVHKNTEDRGDAEIKERST SRDRKQKEELKEDRKPREKDK DKEKAKENGGNRHREGERERA KARARPDNERQKDRGNRERDR DSERKKETERKSEGGKEKERLR DRDRERDRDKGKDRDRRRRVKN GEHSWDLREKNREHDKPEKK SASSGEMSKKLSDGTFKDSKAE TETEISTRASKSLTTKTSKRRSK NSVEGDSTSDAEGDAGPAGQD KSE\VPETPEIPNELSSNIRRI PRP GSARPAPPRVKRQDSMEALQM DRSGSGKTVSNVITESHNSDNE EDDQFVVEAAPQLSEMSEIEMV TAVELEEEKHGGLVKKILETK KDYEKLQQSPKPGEKERSLFES AWKKEKDIVSKEIEKLRTSIQTL CKSALPLGKIMDYIQEDVDAM QNELQM\YHSENQHAELQQ EQRITDCAVEPLKAELAELEQ LIKD\Q\QDKICAVKANILKNEE KIQKMVYSINLTSRR
9688	40056	A	9748	93	800	RANLPTQPYCHCGLAPAALTRI VGGSAAAGRGEPWQVDLWLR RREHRCGAVLVAERWLLSAAH CFDVYGDPA/QWAAFLGT/HVP ERRGGAVERVARIYKHPFYNL YT/FDYDVALLELAGPVRR/SL VRPICLPEPA/HATPDGTRCVIT GWG/YGS/TGAQLQKAAVRLLS EQTCRA/LYPVQISSRMLCAG/ LQGGVDSCSGDAGGPLACREPS GAPVPGQPRCTAPARWPRRSA LSPAPL
9689	40057	A	9749	107	378	NLVP*LRSGD/SPLGDQSPVLLIF TP*ERSTYNLKSSD*PAQETS/PP ISNPDPTE/PDCSTHLAATPRA PGTLAQGSLTDSFPDLLSLAAE D
9690	40058	A	9750	2	286	

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9691	40059	A	9751	215	631	GTQSCNQKVLNSANNLQELGIG PKFQMRLKPQLAPMQPNRGTS LGRSIPCPPVLCSMRKIHLRPQV LRPTSPRNISPILNRVSEVSDHA GTPALVLHP*RQVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP
9692	40060	B	9752	1	933	
9693	40061	A	9753	1	2283	MLPNRLGSSETITDAELRVTLT VEELNGLRAVQDMFVKQILKA ARSLRVITIPNLKYPGTQTLRKA AAPDPNTTGLIFLEKLCEIAAAI ASYVAVPSLEINHRKKANPNLL LRRSGSGSVSLQLLAEKIWEGV REPWARVLVLWEWLPDQNP GLTKSNSTSRHELPHGRAIQLH LSGWELWSEPSNLLDLVVTGDI ENTSLAPEDPTFLTMPSGSHCPE SPSDGPGGLSSLVALVWFLVED WLSRKRLSEPAELPLGKAGEV VFDTLPLPSRRTHFSGFLGHFCY SFSDGYSTNRAAPDGSSTKA HGSCRKQPPYTLQCRDKAGLR VHGNSPVSAYGWLFSEERPGKP TRTPFSWEGDPPGLLTADETSL VVHLELPVFPSFLKRAGNSRHS GMGSPLEAEEAYSTVVMADV QYPVNEPLVAAVVCQEPERAQ PDVHFFQ/CLRLGGHAGGVAAR PLPAAETPPLQRRPSVRA*SAP* SGARAADDPRTTHS\QAEAAQR PEPDILNHVFDDVESF/VSRLQK SAEAARVLEHR/KRGRRSRRRA AGEGLLTLR/AKPPSEAEYTDV LQKIK/HAFSLLARLRGNIADPS/ SSELLHFLFGPLQMIV/QPSGGP EFASSVRRPHLT/RDAVALLRD NVTRE/RLWTSLGDSWTRPG LELSPEEGPPY/IPEFFSGWEPPV TDPQSAPGRTQLRNSYSTSGGA
9694	40062	B	9754	1	930	
9695	40063	A	9755	76	247	QLKTDTAQLPRKLFVESHNYH CSWPGLQSGLPHTSYHTSSS* LYLSDPADIHPIPS
9696	40064	C	9756	95	301	
9697	40065	A	9757	352	545	DILNHVFDDVESFVSRLQKSAE RPGCWRRTTRPQKPAPGVAG* RGTWRGI*TPPDFQMSPLSP
9698	40066	B	9758	406	602	
9699	40067	A	9759	1	543	

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9700	40068	A	9760	2	138	LDDFVGRMLTLMGCPPEC/PR VPSPLREGRKTQAALSVRRGRS HRR
9701	40069	A	9761	1	417	
9702	40070	A	9762	830	1029	YLPHLRLRLPCPPPLPLSKPNS LP*LRPSLLQRDYLSIFILINMP SISSTTMLLYGQKEISLH
9703	40071	B	9763	40	980	
9704	40072	C	9764	419	700	
9705	40073	A	9765	271	1185	
9706	40074	A	9766	2	1655	RGRRSRRRAAGEGLLTLRAKPP SEAETYDVLQKIKYAFSLLARL RGNIADPSSPELLHFLFGPLQMI VNTSGGPEFASSVRRPLVTSD\ AVALL\GNNVTPRENELWTSLG DSWTR/LRA/EELSPEEGPPYRP EFFSGWEPPVTDPOQRAWEDPV EKQLQHERRRRQQSAPSGRCQ WVTGDLEPESEPLESETAGK WVLCNYDFQA\RNSSEAVRSSS GDVL\EVL\DDSR\KWWKVRDP AGQEGYVPYNILTPYPGRLHH SQSPARSH\DSTPPPPAPAP/VP/ LPPALARPRWDRPRWDSCDSL NGLDPSEKEKFSQMLIVNEELQ ARLAQGRSGPSRAVPGPRAPEP QLSPGSDASEVRAWLQAKGFSS GTVDALGVLTGAQLFSLQKEEL RAVSPEGG\ARVYSPVTVQRSL LEDKRES\SELEAVMEKQKEEG GRRGGNGGHLTCQAPFAKSDE APWENGPPQTLNPSGSRSEGW PICSGPGLPPLPVDRNLNDPCCSP SGEDLDWLGVGRAWRQSTESA SRPPRGCSGALSIVILRSPINMP PCLAKKKKK
9707	40075	C	9767	565	762	
9708	40076	A	9768	1	401	SPLRPLLLALALASEPCAQGAC PASADLKHS DGTRTCAKLYDC SDPYYENCCGGAELSLESGADL PYLPSNWANTASSLVVAPRCEL TVWSRQKGKAGKTHKFSAGTYP RLEEYRRGILGDWSNAISALYC RCS

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9709	40077	A	9769	1	1489	MPQLLQNINGIIEAFRRYARTEG NCTALTRGELKRLLEQEFADVI VKPHDPATVDEVLRLLDEDHT GTVEFKEFLVLVFKVAQACFKT LSESAEGACGSQESGSLHSGAS QELGEGQRSGTEVGRAGKGQH YEGSSHRQSQQGSRGQNRPGV QTQGQATGSAWVSSYDRQAES QSQERISPQIQLSGQTEQTQKAG EGKRNQTTEMRPERQPQTREQ DRAHQTGETVTGSGTQTQAGA TQTVEQDSSHQTGRTSKQTQEA TNDQNRGTETHGQGRSQTSA VTGGHAQIQAGTHTQTPTQTVE QDSSHQTGSTSTQTQESTNGQN RGTEIHGQGRSQTSAVTGGHT QIQAGSHTETVEQDRSQTVSHG GAREQGQTQTQPGSGQRWMQ VSNPEAGETVPGGQAQTGASTE SGRQEWSSTHPRRCVTEGQGD RQPTVVGEEWVDDHSRETVILR LDQGNLHTSVSSAQGDAAQS EEKRGITARELYSYLRSTKP
9710	40078	A	9770	2	3031	
9711	40079	A	9771	6288	6584	TAVSLPAPLFSDLQIPPRKRSK ETVMAPELNTN*RAPPQSSARV FQ*EALYVPGP*ALDPPEVCSSY SSVCGLHQLSHSSSESSSTLGSL LGSFQML
9712	40080	A	9772	884	1032	ESRPNTTTLRLKTSSWSFQS*TA TQTKGPRDPGASMTKPGATSER SASG

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9713	40081	A	9773	1	1457	RSAQKEKTAAKEQQGEKTEVL SSDDDDAPDSPVILEIPSLPPSTPP STPTYKKSLRLSSDQIRRLNLQE GANDVVFSVTTQYQGTCRCKA TIYLWKWDDKVVISDIDGTITK SDALGHILPQLGKDWTHQGITS LYHKIQLGQLVMPLDARPERP MDGMKVRAFMERLLFVRRGT DKRWSVRMYVTCSQSSNLNEE IYINQVVIQANMKLQLWAMRT DDARGLSSLGDTSPSPCVVP GLQPKPAPVCAGDALLQAQIPG VLLGTLFSGAAFYSGLYGGSEQ FLDHLLHPARAAPPPLVGP GP APRVPGSPSAPELAGPAVWRFA AAASRGVVVAASGWGRGGEA SQTFTGKEPGGTRHPTRMPLG STGCIFPGTLEKSQGYERYNAM RADPALCFLEKVGMPDEKSLSA EQGVTDGTSDIPERARQNEEQ TSFGLLWPTPQGSTDHIDNHPR ERYPEMRWELDVPLPIDYMEI PVDWWDA
9714	40082	A	9774	3	4804	KRLENIQKTLEVAFSEAVWMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQR LAHALNDMIKE FISMGSLVALIATSQSQSLHPL LVSAQGVHIFQCVQHIQPPNQE QRCEILCNVIKNKLD CDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFQKALRGFLPASLRVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
9715	40083	A	9775	1	897	
9716	40084	A	9776	486	800	CLQLSWLSLGAQVHWLGRA VHTAF CMD*VLLFGESFGFLVR LTPGILLGLL*P*KQGHCHSVSL GEVRI/CGIIS*TFITSWAFSVLQ GKASAPVKVSTQNSRY
9717	40085	C	9777	332	497	

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9718	40086	A	9778	1	6504	MWGSDDLKAGGGGAAVTVAF FTNARDCLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDQGENVAEINRQVGQKL GLSNGGQELHAVSLEQHLLDQI RIVFPKAIFFVWVDQQTIFYIFI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADA EYKKLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKVVPL
9719	40087	A	9779	1	5421	
9720	40088	B	9780	124	273	
9721	40089	A	9781	84	493	IHANNC S*L*KAALNFVLLLLQ KRL*GEKHLTLSETGREGNKVG GVGS*VTGTGQETELGSLGRCH SPLSVLHLLPFFS/ILLGRTHLNA LLIRDYFASSCKYL*EVLLSLSD GSG*NLMSVWMAGNSSAEYVR
9722	40090	A	9782	1	5954	MDGMTEACIKGGIEACYAAVS CVCTLLGALDELSQGKGLSEGQ VQLLLLRLEELKDGA EWSRDS MEINEADFRWQRRVLSSEHTP WESGNERSLDISISVTTDTGQTT LEGELGQTTPEDHSGNHKNSLK SPA IPEGKETLSKVLETEAVDQP D VVQRSHTV PYPDITNFLSVDC RTRSYGSRYSESNFSVDDQDLS RTEF\DSCDQYSMAAEKDSGRS DVSDIGSDNCSLADEEQTPRDC LGHRSLRTAALS
9723	40091	A	9783	1	2217	
9724	40092	A	9784	1	1360	
9725	40093	A	9785	1	777	MNIKNPIAAQHLDNLPIVKASSI GMTWGLVRNGVSAPTQKSCIRI HILARCTGAVAFEKLYFKSPAN QAHARKVGKQVQDCYIGRDIV AKAGAIHLLNVGKGTPVCCPLL EEGINSEVWTTEGQYGRAKINA RPVQVKLKDSTSFYQRYPLR PKA/LTKGFQKIVKDLKAQGLV KPCSNPCSTPILGVQKPNRQWRI EALKLQIVLQMEPQMMSMTKI YHGPLGRPASPCSDVNDIEGNP TKEISTAPLLCPNSAGSS
9726	40094	A	9786	1	415	

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9727	40095	A	9787	1	451	MVHFISRLLYSDGLDVPDPIQ DSDDAALSVSPHCSPDSRVSTT KHLWVSPRLLRVAVRVKNIDIT NFSSSWNDGLAFCALLHTYLP AHIPYQELNSQDKRRNFMLAFQ AAESVGIKSTLDINEMVRTERP DWQNVMLFVIAIYKYFET
9728	40096	A	9788	3	605	DEWPPERIIQYNEPTTWH/EDGL WGYRTRFYMINQIHW/LQAILEII TNKTDRALTILAQQETQMRNAI NQNRALDYLPAEAGGICGKF NLTNCCLVHDDQGGVVEDIVR DMLKLSHVPMPQVWHGFDPGA MFGKWFPVLGGFKTLIIGVILVI GTCLLLPCLLPVLLQMIKSFIAT LVHQNASEQLYYMNHYSVLQ EYMGS
9729	40097	A	9789	3	876	GAGGGFGSPMDIFDMFFCGGG RMHRERRGKNVVHQLSVTLED LYNSATRKALQKNAICDKCE DRGGKKGVEYCPNCRGTGM QIRIHQIGPGKVQQIQSVCVECQ GHGEQISPKDRCESCNGRKILR EKKILEFHIDKGMKYGQKITFH GEGYQEPGLEGEDIIIVLDQKD DAVFTRQGEDLFMCQIVKHGDI KCVINEGMPYPRPYEKGRLLIE FKVNLPENDFLSPDKLSLLEKL LPKRKEVEETDEMDQVELVDF DPNQERWHHYNGEAYEDDEH
9730	40098	A	9790	199	410	
9731	40099	A	9791	134	1369	KMVKETTYDVLGVKPNATQE ELKKAYRKLALKYHPDKNPN EGEKFKQISQAYEVLSDAKKRE LYDKGGEQAIKEGGAGGGFGS PMDI\FDMFFGGGGRMQRERRG KNVVHQLSVTLEDLYNGATRK LALQKNVICDKCEGR/SGRFKE QGAVRSACPNCRGTGMQIRIHQ IGPGMVQQIQSVCMECQGHGE RIRPKDRCKSCNGRKIVREKKIL EVHIDKGMKDGQKITFHGED QEPGLEPGDIIIVLDQKDHAVFT RRGEDLFMCMDIQLVEALCGF QKPISTLDNRTI\VITSHPG\QIVK HGDIKCVLNEGMPYRRPYEK GRLIIIEFKVNFENGFLSPDKLS LLEKLLPERKEVEETDEMDQV EL\VDVDFPN\QERRRHYNGEAY EDDEHHPRGGVQCSDLLMGPV

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9732	40100	A	9792	3	337	GYSQAPRKR/GGECSSLSQPFSAQPDAAASLEPPSLETPAGRTPATLTQGSPPAAVREPLSPGHNAKARLRSRPARPPWIPDPDPPGHFVTDFCAPESLQGETRTRSFSQLL
9733	40101	A	9793	1	346	SGS*QLQMCSGLPAHTQDETHISSCGQLDLALPPLLPLPPSPNLTLPPQGLCTC
9734	40102	A	9794	1	1110	MEGEEAAGAAGPDPVGHRRKCGFHPVCEREAPSTFAAVMIHLVVQYIGEICRYLLKQPVREAERRHRVRLAVGNGLRPAIWEETERFGVRQIGEFYGATECNCSIANMDGKVGSCGFNSRILPHVPIRLVKVNEDTMELLRDAQGLCIPCQAGEPGLLVGQINQDPLRRFVNGYVSESATSTKIAHSVFSKGD SAYLSRDALMMDELGYMYRDRSGDTRWRGENVSTTDVEGELSRLLGQTDVAVYGVAVPGKLGLQGVVLRHGVGKAGMAAVADPHSLDPNAIYQELQKVLA PYARPIFLRLLPQVDTTGTFKIQKTRLQREGFDPRQTSDRLLFLDLKQGHYLPPLNEAVYTRICSGAF
9735	40103	B	9795	28	376	
9736	40104	A	9796	3	461	VRQCRGIRDPIYRFFKRTELFIA AEGIHGTGFVYCGKKAQLNIGNVLPVGTMPGATIVCCLEEKPGDRGKLARASGNATVISHNPETK KTRVKLPSGSKKVISSANRAVVG/VVSGSS*MLRAVGEHAVSAGGQPVARLGPWNSITCCSKTWV
9737	40105	A	9797	1	701	MQEVPGMFERNYPHPAITFKPSVPVSRSLDYAPLPGGVFRDPYW FKKRTELFIAAEGIHGTGFVYCGKKAQLNIGSVLPVGTMPGMI VCCLEEKPGGRSKLSWASGN YATAISHNPETKKTRVKLPSGSK KVVSSANRAVVGVAAGGRTDKPILKACQAYHKYKAKRNW WPRVWDVAMNPMEHPFGGN HQHIGIPSAI/SRDDPAGCKMGL IAARQTGRLWGKTQVEKEN

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9738	40106	A	9798	1	910	QCGGIRRTGPVAMGRVIRGQR KGAFSVFRAHVKHRRGAARLR AVDFAERHGYIKGIVK/DAERW PGREGKGRPAGTPHSRRLCPQD IHDRGR\GAPLA\RVVFRDPYRF KKRTELFVIAAEG\IHTGQFVYC GKK\AQ\LNIGNVLPVGTMP*\G TIVCCLEEKPGD\RGK\LARASG NYATVIS\HNPETKK\RVKLPS GSKKVISSANRAVVGVVAGG\G \RIDKPIFEGWPGRYHKKYAKR NC*PRIRGV\AMNPVEHPFGGG NHQHIGK\PST\IRRDAP\AGRKV GLIA\ARRTGRLRGTKTVQEKE
9739	40107	A	9799	1	405	LEISIMAASISGYTFSAVCFHSA NSNADHEGFLLGEVRQEETFSSIS DSQISNTEFLQVI\KVIGWYRFR RNTQQQMSYREQVLHKQLTRI LGVPDLVFLFSFISTANNSTHA LEYVLFRRPNRRYNQRISLAIPN
9740	40108	A	9800	1	232	
9741	40109	A	9801	1	420	
9742	40110	A	9802	3	1272	EISIMAASISGYTFSAVCFHSAN SNADHEGFLLGEVRQEETFSSISD SQ\ISNTEFLQVIEIHNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIG\WYRFRRNTQQQMSY K\EQVLHKQL\TRILGVPDLVFL LFSFISTANNSTHALEYVLFRRPN RRYNQRISLAIPNLGNTSQQEY KVSSVPNTSQSYAKVIKEHGTD FFDKDGVMKDIRAIYQVYNAL QEKVQAVCADVEKSERVVESC QAEVNKLRRQITQRKNEKEQE RRLQQAVLSRQMPSESLDPAFS PRMPSSGFAAEGRSTLGDAEAS DPPPPYSDFHPNNQESTLSHSR M\ERSVFMPPRQAVG\SSNYAS TSAGFEVFLGSGADLPPQRAA GDSGEDSDSDYENLIDPTEPS NSEYSHSKDSRPMAPDEDPRN
9743	40111	A	9803	3	513	GAYGGGYGACDNYNGYGYGF GSDRFGRDLNYCFSGMSDHKY GDGGSTFQSTTGHCIYVHIEIGP DGRVTGEADVEFATHEDAVAA MSKDKANMQHSYVEPFLNCAA GASGTAYGSQMMGGMGLSIQS SYGGPASPQLSGGYGGGYGGH SSMSGFDQVLQENSCDFQSDIA
9744	40112	B	9804	73	1127	

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9745	40113	A	9805	1	3647	MRVRHVGQAALLLTSVRESR ATSAFQVSPYEDEPCRPCNCDP VGSLSVCIKDDDLHSDLHNGKQ PGQCPCKEGYTGEKCDRCQLG YKDYPTCVSCGCNPVGSASDEP CTGPCVCKENVEGKACDRCKP GFYNLKEKNPRGCSECFCFGVS DVCSSLSWPVGQVNSMSGWL TDLISPRKIPSQQDALGGRHQVS INNTAVMQRLAPKYYWAAPEA YLGNKLTAFGGFLKYTVSYDIP VETVDSNLM SHADVIK
9746	40114	B	9806	141	236	
9747	40115	B	9807	66	266	
9748	40116	A	9808	1	330	
9749	40117	A	9809	1	792	
9750	40118	A	9810	129	311	
9751	40119	A	9811	3	538	
9752	40120	B	9812	96	536	
9753	40121	A	9813	1	2090	MSSNQKSPTKTSKSPGTANVLD VNNSTLMFVGGLGGQIKKSPA VKVTHFKGCLGEAFLNGK SIGL WNYIEREGKCRGCFGSSQNE DP SFHFDGSGYSVVEKSLPATVTQ IIMLFNTFSPNGLL\YLGSYGT KDFLSIELFRGRVKVMTDLGSG PITLLTDRRYNNGTWYKIAFQR NRKQGVLAVIDAYNTSNKETK QGETPGASSDLNRLDKDPIYVG GLPRSRVVRRGVTTKSFVGC IK NLEISRSTFDLLRNSYGV RKGC LLEPIRSVSFLKGGYIELPPK SLS PESEWLVTFATTNSSGII LAALG GDVEKRGDREEAHVPFFSV MLI GGNIEVHVNPGDGTGLRK ALL HAPTGTCS DGQAHSISLVR NRR IITVQLDENNPVEMKLGA LVES RTINVS NLYVGGIPEGE GTSLLT MRRSFHGC IKNLIFNLDH GFVD SVEQKRFCGV PSCARES ARGRA QAQDTAQELQSESACDK RSPQP PGKGKHM YGGVLQPQSL FQKN LLFYDEVLDLQPNGKEKE FSV GANHNAFMVVHWGVCGF CLF PSGEWLAS PFCVHPQIT IHPPDR FQASVTDEGYLFLAKPTQ PAPA CPLDPIRPLLLGHAQQP LLTDQ HTDAAVTPSSAVTARA ANYCA GGRNERKKTGREKRHLT GGPC VALRTFTVLHISHHQV DGIRA GYVQRDGLQPTNRQIVM

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9754	40122	A	9814	1	8705	MRGGVLLVLLLCVAAQCRQRG LFPAILNLASNAHISTNATCGEK GPEMFCKLVEHVPGRPVARNPQ CRICDGNSANPRERHPISHAIDG TNNWWQSPSIQNGREYHWVTI TLDLRQVFQVAYVIIKAANAPR PGNWILERSLDGTTTFSPWQYYA VSDSECLSRYNITPRRGPPTYRA DDEVICTSYYSRLVPLEHGEIHT SLINGRPSADDLSPKLLEFTSAR YIRLRFERIRTLNADLMTLSHRE PKELDPMLPR
9755	40123	A	9815	1	564	MGDLEDKLVPFIGELPRHLDQN SEQLKQVVQRELKELHETCQQ HQLCQASTSGEPKERDKEEGK DSKPRSLRFTWSMKTTSMDPN DMMREIRKVLDANNCDEYQKE RLLFCVHGDARQDS/LPCQWG DGKSCQVGPRLS\LNGV\RFKRI S\GTSYCPLKNIA\SKIA\NELKP VKKSQIYQVQGRYIHI
9756	40124	A	9816	2	451	ANAHGFIMELQDGYSTETGEK GAQLSGGQKQRVAMARALVR NPPVLILDEATSALDAESEYLIQ QAIHGNNL\QKHTVLIHARLSTV EHAHLIVVLDKGRVVQQGTHQ QLACPRAGFYGKLVQRQMLGL QPAADFTAGHNEPVANGSHKA
9757	40125	A	9817	1	498	MVKY/YLGQGVLRSSW/DQVV PA/FWQRYRNPVQRYLTEDIVH RENQMTTFTWNINHARPMVV EERCVCVNSDNSGWTEIRREA WVSSSLCGVSRVWVWFGLAQF KSNVTKTLKGFYILAKLQGEA ASKTLIKTAREAKEKAKETALA ATEKAKDLASKAATKKQQQ
9758	40126	A	9818	3	231	
9759	40127	B	9820	94	375	
9760	40128	A	9821	45	439	

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9761	40129	A	9822	304	1557	DRQNVMEQFNPGLRNLI ^N LGK NYEKAVNAMILAGKAYYDGV AKIGEIATGSPVST ^N ELGHV ^L IEI SSTHKKLQRESLMENF\KKFHK EIIHELEKKIEL\DVKYM ^N ATLK RYQTEHKNKLESLEKSQAELK KIRRK ^S QGSRNALKYEHKEIEY VETVTSRQSEI\QKSIADGCKEA LLERERGASCFPGLNKHCGFA/ NTHIHYYHLQSAELLNS\KLPR WQETCVDAIKVP\EKIMNMIEEI KTPASTPVSGTPQASPMIERSNV VRKDYDTLSKCSPKMPPAPSGR AYTSPLIDMFNNPATAAPNSQR VNNSTGTSEDPSLQRSVSVATG LNMMKKQKVKTIFPHTAGSNK TLLSFAQGDVITLLIPEEKDGWL YGEHDVSKARGWFPSSYTKLL EENETEAVTVPTPSPTPVRSFSG
9762	40130	B	9823	1	1128	
9763	40131	A	9824	1	434	
9764	40132	A	9825	92	319	SIPPYP ^I PPPVD ^R KEID*LEGMQT SGLFQQTSG*EEGVGSIMASGR PPHPEPLKADFICKREVR ^L AFSI ACIWMR
9765	40133	A	9826	1	851	
9766	40134	A	9827	227	305	LVIFSIFNLVG*NISDCIILICQLK
9767	40135	A	9828	66	808	YCWQSQGA ^K PRDLLGPD ^L LIPLN HSPRVSHLLCH ^R HIRKAGGVFV ADEIQVGFGRVGK ^H FWAFQLQ GKDFVPDIVTMGKSIGN ^H PVA CVAATQPVARAFEATGVEYFN TFGG\SPVSCAVGLAVLN ^V LEK EQLQDHATSVGSFLMQL ^L GQQ KIKHP ^I VG ^D VRGVGLFIGVD ^L IK DEATRTP\ELKR ^H VYLVSR ^L KE NYVLLSTDGPGRN ^L KFKPPMC FSLDNARQVVA ^K LDAILTDME EKVRSCENR
9768	40136	A	9829	3	597	

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9769	40137	A	9830	1	3281	MGFHHVQGAGLKLLTSGTPQL LALVQHWVPGARLVEELPHEL VLVLPYTGADGFSATLRFELD TRLAELRLTGYGISDTSLEEIFL KVVEECAADTDMEDG/TLRAA PMHRHCWPRRNPTAQDAATGD SAG\DGEPAGSAPETDQGSGPD AVGRVQGWALTRQQLQALLL KRFLARRSRGLFAQIVLPALF VGLALVFSLIVPPFGHYPALRLS PTMYGAQVSFFSEDAPGDPGR ARLLEALLQEAGLEEPP
9770	40138	A	9831	1	684	RTRGPPQSRSGRRRIPLYLP TSCIKELVAGGVAVESWPGRD AAQLLLCSCLLSPPVMTETRE PAETGGYASLEEDDEDLSPGPE HSSDSEYTLSEPDSEEEEEDEEEE EEETDDPEYDPGYKVK*RLGG GRGGPSRRAPRAAQPPAQPCQ LCGRSPLGEAPPGTPTCTGTSCC MPGVRCRQSPHTGSLAEGVGW EEGAEIGVTVVMGDGVLPV CVVLEVDV
9771	40139	A	9832	1	670	MESDIGRKGKGDPEAGPEHSSD SEYTLSEPDSEEEEEDEEEEEET TDDPEYDPGYKVKQRLGGGRG GPSRRAPRAAQPPAQPCQLCGR SPLGEAPPGTPTCRLCCPATAPQ EAPAPEGRALGEEEEPPRAGE GRPAGREKEEEEEEGTYHCTE CEDSFDNLGEL\TGTSCCMPGV RCRQSPHTGSLAEGVGWEEGA EEIGVTVVMGDGVLPVCVVL
9772	40140	A	9833	3	512	
9773	40141	A	9834	3	815	MLYSRGPQPMGHGPVLVCGLL GTGCTAGAQLREAYTSISSQID QAEERISEIEDKLNEIKREDKITE KRMKRNEQSLQEIWDYVKRPN LRLIGVPKSDVENGTLENTLQ DIIQENFPNLARQANVQIQEIQR TPQRYSSRRATPRHIIVRFTKVE MREK\MLRAAREKGRVTHKGK PVRLTADLSAETVQARREWGPI FNILKGKNFQPRISYPAKLSFISE GEIKYFTDKQMLKDFVTT/RPA LKELLKEALNMERNNWWYQPLQ KHAKL

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9774	40142	A	9835	1	561	MVNGRIPQAPSQFSHLARLHPA PSPNSDPSPFLAELLMPVIGL TPSYPSRFSSESTFLQEAFDLC QAEDPVYANGGLNYSYRGYGA LSSNLQPPASLQTGNHSNGPTD LSMKGGAF TTSTTPTPTPSSTST SRPVPTAQLSPTEISAVRQLIAG YRESAAFLRSADLENLILQQ NRPRRHL
9775	40143	A	9836	2	226	KG VQ FQ FSSYG*PVFPTPFIK*G VLSPLFVFLRFLKDQMVVDV*H YF*GLCSVPLVYISVLVLPCCF FFTVAL
9776	40144	A	9837	2	350	YKVSKPKAQLCSQQVKYLWLK LSKGTRALSEERJQPILAYPHPK TLKQLRGILGITGFCRIWIPAR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9777	40145	C	9838	213	365	
9778	40146	A	9839	1	1923	

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9779	40147	A	9840	1	2091	MVLVVVA VVVVVVLVVA VIVV VVVVVA AVVVGA VVVVVVVV MVVVVVVVVVEEDNQHK TGA INNNNTAKNPQQSPFHSPATST GAEATQMRRNQKTNP HNMTK QVSLTPPKITLAHQQWIQT KKK YLIYLKKHSGV NKIPRNPTYEG CEGPFQGELQTTAQQNKGGHK QTEDHSM LMDRKNQYCENGH TAQAVPNPYTLLSQIPEDA EWF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGFR NSPHLFGQALAQDLSQFSYLD T LVLRYMDDL LLA THSETLCHQ ATQALLN FLATCGYKVSKPKA QLCSQQVKYLGLKLSKGTRT LS EERIQPILGYPHPKTLKQLTA FL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPAEVAF QALKKAL THAPVLSLPVGQNFS LYVTEK\TGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLTSKGT LVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLAIHHCCLP PPPQ TRCWLP SLRIRQGVCCIPD PAR AITLTAWPKIPFLGIRKAKNPQV REHEACHHLGSGLP PFWKWPT TILGALGARTPGNTGSTYTFIGY TYTSPVIFILSWQYVVFHGLYY
9780	40148	A	9841	1	1284	

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9781	40149	A	9842	1	1522	MVAPGSVTSRLGSVFPFLLVLV DLQYEGAECGVNADVEKHLEL GKKLLAAGQLADALSQFHAAV DGDPDNYIAYYRRATVFLAMG KSKAALPDLTKVIQLKMDFTA ARLQRGHLKKQGGKLEAEDD FKKVLKSNPSENEEKEAQSQI KSDEMQRRLRSQALNAFGSGDY TAAIAFLDKILEVCVWDAELRE LRAECFIKEGEPKKAISDLKAAS KLKNDNTEAFYKISTLYYQLGD HDCSFSEFRDVLNLDQDHKRC FAHYKQVKLNKLIESAEELIR DGRYTDATSKYESVMKTEPSIA EYTVRSKERICHCFKSKDEKIPV EAIIRVCSEVLQMEPDNVNALK DRAEAYLIEEMYDEAIQDYETA QEHNVENDQQIREGLEKAQRLLA KQSQRDYYKILGVKRNAKK QEIIKAYRKLALQWHPDNFQNE EEKKKAEEKFIDIAAAKEVLSD PEMRKKFDDGEDPLDAESQQG GGGNPFHRSWNSWQGFNPFSS GGPFRFKFHFN
9782	40150	A	9843	5	519	LTCQEEHKKKHDPDSSVNFVEFS KKCLERWKTTSAKEK/SKFEEK AKSDKARCDREIKNYIPPKCKK GRPPSAFFLCSEHRPKIKSGHP GLFVVETAKKLGEMWSGQSAK DKQPYEQKAVKLQERYEKGIA AYRAKGKSEAGKKGSKKNKPE DEEEEEKEDEDEEEGEDEE
9783	40151	A	9844	1	3140	YSIATVLAEEKLDPRRDEAKR LRPQRNFNITFTHTGTVFRPLTLE STFFNSALLFTTIKQDLPLPKTI ITNAFHRFRNHHQTGFKLAAAN QRGPLAATLSGPGGEGQSAVA RLTGEKKNHPGAQYANRLSPR VGRFINAAGTTGFPTGKRARSD SSLAKENNQKAYKETYGVSHIT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFY

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9784	40152	A	9845	2	604	FLELPAAAAAVLSASPGALER EARS PRSPQTADTSPRPRAPAC APSRARAMPSDRPFKQRRSFAD RCKEVQQIR\DQHPSKIPV\IIR YKGEKQLPVLDKTKFLVPDHV NMSELVKIIRRLQLNPTQAFFL LVNQHSMVSVSTPIADIYEQEK DEDGFLYMVYASQETFGF*ASS PCLSAHLPLTHPRLCPPGPAHP
9785	40153	A	9846	3	303	RDQHPSKIPVIIRYKGEKQLPV LDKTKFLVPDHVNMSELVKIIR RRLQLNPTQAFFLLVNQHSMVS VSTPIADIYEQEK\DEDGFLY VYGLPGKPFGF
9786	40154	A	9847	254	2110	
9787	40155	A	9848	234	1904	
9788	40156	A	9849	5	189	
9789	40157	A	9850	1	1546	MASASSQPSLAVGFSSFDPGAP SCTASSASGILSPTASEVPYASG MPIKKTGHRGVDSSGETTYKKT TSTALKGAIQLGITYTVGSLSTK PERDVLMQDFYVVESIFFPSEGS NLTPAHHYNAFRFKTYAPVAF RYFRELFGIPPDDYLCSLCSEPLI ELCSSGASGSLFYVSSDDELIK TLQHKEAEFLQKLLPGYYLNLS QNPRTLLPKFFGLYCVQTGGKN IRIVVMNNLLPRSVKMHKYDL KGSTYKRRASQKEREKPLPTFK DLDFLQDIPDGLFLDADTYNAL CKTLQRDCLVLQSFKIMDYSL WLSIHNIDHAQREPLSSDTLQV SIDTQRLAPQKALYSTAMEFIQ GEARLGDTEADDHMGGIPAQ NSKGERLLLYIGIIDILQSYTFLK KLEHSWKA VVHDGDAVSVHR PGFYAERFQHFMCAVFKKIPL KPSPSKKFRSGLSFSLHTGSSGN SCITYQPLVSEEHKSQVIKVQVE PGVHLGRSDVLPQTSE\PPLEEIT

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9790	40158	A	9851	233	2051	AGPGAGSTCLREARRGRGGGP QNAGSVKRRWEDSIPRRGRTGL KESQAAEGEGAAMASASSGP SSSVGFSSFDPAVPSTLSSASGI KRPMASEVPYASGMPIKKIGHR SVDSSGETTYKKTSSALKGAI QLGITHTVGSLSTKPERDVLMQ DFYVVESIFFPSEGSNLTPAHHY NDFRFKTYAPVAFRYFRELFGI RPDDYLYSLCSEPLIELCSSGAS GSLFYVSSDEFIITVQHKEAE FLQKLLPGYYMNLNQNPRTLPL KFYGLYCVQAGGKNIRIVVMN NLLPRSVKMHKYDLKGSTYK RRASQKEREKPLPTFKDLDFLQ DIPDGLFLDADMYNALCKTLQ RDCLVLQSFKIMDYSLLSIHNI DHAQREPLSSETQYSVDTRRPA PQKALYSTAMESIQGEARRGG TMETDDHMGGIPARNSKGERL LLYIGIIDILQSYRFVKKLEHSW KALVHDGDTVSVHRPGFYAER FQRFMCNTVFKKIPLKPSPSKKE RSGSSFRRAGSSGNSCITYQPS VSGEHKAQVTTKAEVEPGVHL GRPDVLPQTPPLEEISEGSPIDP SFSPLVGETLQMLTTSTTLEKLE
9791	40159	A	9852	30	298	EPFIFLFIYLFYLFETESRPVIQ AGVQWCNLSSLQPLPTGFKQFS VCLSPITSWDYRHPPPCPANFCS FSRDGVSPCWPGWSQTPDLR
9792	40160	A	9853	3	938	
9793	40161	A	9854	208	870	LGMAGRLFTVNLQSPLNPSTLL AEVCVEQCTLMDSKMKPLWIM YSNEEAGSGGRVSVSLKRDDD LWQDMLTMQTIRLMDVPDTIA NIQLNNRNMDGGNEEFTLSA GYCVATYVLGIGDRHSDNIMIR ASGQLFHIDFCHFRQRPFILTY DFVHVIEQGKTNN/SEKFERFRG YCERAYTILRRHGLLFLHLFAL MQAAGLPELSCSKDIRYLKDSL VHPL

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9794	40162	A	9855	1	790	VEELSKKLADSDQASKVQQQK LKVGQLGEWVWPLDKGGKLFS KLWGRGGLVYKWFLLIYKISY ATGIVGYMAVMFTLFGNLLF KIKPEDAMDFGISLLFYGLYYG VLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCVCGQQI FVDVSEE/EDH*EHRCS/CFHEF CIRGWCIVGKKQTCPYCKEKV DLKRMFSNPYPLLGSLLGVGCG KKVLASVTCIWVLLGPSLLPPT RTCQTMNNKKIMKVMMRIKR MMTDTMAS
9795	40163	A	9856	1	1005	FRGRAVKMAAVVEVEVVGGA AGERELDEVMSDLSPEEQWR VEHARMHAKHRGHEAMHAEM VLILIALTVVAQLLLQWKQRH PRSYNMVTLFQMWWVPLYFTV KLHWWRFLVIWILFSAVTAFTV FRATRKPLVQTTPLRVYKWFLI IYKISYATGIVGYMAVMFTLFG LNLLFKIKPEDAMDFGISLLFYG LYYGVLERDFAEMCADYMAST IGFYSESGMPTKHLSDSVCVC GQIFVDVSEEGDHETTYRLSC NHVSHEFCIRGWCIVGKKQTC PYCKEKVDLKRMFSNPWERPHV MYGQLLDWLRYLVAWQPVIIG VVQGINYILGLE
9796	40164	A	9857	28	267	LNIGKGDSSKPRGKMSSYAFFV QTCREEHKKQHPDASVNFSEFS YKKDIAAY*AKGKPDAAKKGF KAEKSKKKKEEEED
9797	40165	A	9858	1	194	MGKGDPPKLRGKMSSYAFFVQ TCQEEHKKQPDASVNFSEF/S KKCSERWKTMSAKEKSEDMA KL
9798	40166	A	9859	241	958	HQIFILFFRKITKHGQRRSLRSPR GKMSS\FAFFVQTCREEHKKRH PDASVNFSEFSKKC/SQRGWKT MS\SKEKGKF*RYGQKRDKAR YER\EMKTYYP\S\KGGDQKRSF KDPNAPQGGPPFGPSFLFCSEY RPKIKREDHPGLSIGDVAKKLG EMWELTLLQ/SDKQPYEKKAA KLKEYEKDIAAYRAKGKPD AKKGVVKAESKSKKKKEEEDE EDEDEEEEEDEDEDEDEDEDD

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9799	40167	A	9860	2536	2909	KSGVPGSRFSSDDKSDTGVTGL FSTYFLKSDFQLQLIDISASTAS KSLFSAVLFFQEYILSFGLSEIISIL SSAVCWREAPKLSMVGCLAAG GKLTGC*AAGCLATDGRTE TL DAAPAAAALSAV
9800	40168	A	9861	5	1752	KCTICLRNS/IAVCCGCGQGLSG YLN GEGADGAERGGGGSGVE C LRAPVCGQAASSLAASQLAAG GQAANHAQLRCLSPADCALML FIQVEVL TNSIAMVSVHLEKQP LKLVLGELGFRSPAGEEQATPV VGGEGLGCIEDSAAVAEGGIAI GGIVGINTALQEV LKPHTIKMQ RNNAQLSRRKEPKEGLCGERG QDRMSRAKGSSSKGKELPPGCR RVTMKPLL VRETQEGQAAERG AEEQLQTLGPFAVYRDSPSKNF YKRDKMLKGLEEAKVNFVWR TNEGFLEEDAGQEFGIQKAVTP ALCPSRKA EVPLSCLTLKLS ED GKAKKAPYNTGPLGLLHLSMC SHSRKGFEQLWQLNSGKLLQG PRDSVEGSARRAETA VHCPAVL HFAPALLLAALRCQRDLESAAA PSHTRSCQHPRLLSGA VQTAGF SNPPKVVIQIKWNFLVM LLNFP GSTKLIARLKQQMNYKEMASQ RLTQSMLPHRSRLIGAGPCNRC VHPEPVIVTLFGQKV FARIKKN QTCLLCSQIWCAHYQQGWICA WLAGFGKIYIFSTIGVIDTLSSG HIHLQPNCTARDSASWESPA
9801	40169	A	9862	1	668	MWRLVIQDAKDENGVLVGNR VLAHSSLAVLSCLALNNRRISG WTP/CGPSGSPPGFMGRRGTST/ RLPTG**CPEGQPPRCPCG*ASG CASSPAECRMPATHLPNGSGRV PFPPGPVNYSPLRLQAPEQVTG S/SPWPFS/RPVLGPLPLEGSPPP F/RLPPRPRPAGVAAGSSWGHS AASVRRSPGRRPEGESIHPRPPA SRLPWLRATREEEAGAPKLGED SYPNF

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9802	40170	A	9863	2	624	FMGRRGTSTPFPLADNAPRGSP PGAHVVGGWDPDLRRAPVTGF SCSGSCSQRGAADWESFPRSP CRASGCASSPAECRMPATHLP NSGRVPFPFGPVNYSPLRLQAP EQVTGS/SPWPFS/RPVLGLPLE GS\PPPF/RLPPRPRPAGVAAGSS WGHSAASVRRSPGRRPEGESIH PRPPASRLPWL RATREEEAGAP KLGEDSYPNF
9803	40171	A	9864	51	225	
9804	40172	A	9865	1	276	AFAAIPTNTLLLEQKALDEPAE TESVSKDNTL*PPVETPTTLPR AGRETKYANLSSPTSTVSESQ/P D*AWSNPSTCKIQNITEKRGG L
9805	40173	A	9866	3	441	QTNFKGCSKVTSSKLNMSLLW TPTGR*GCDRKVEQGPPGDLGT AAVRPKSLAISSSLVS/ACSASK TQGTDLKTSSHPEMLHGMAPQ QKHGQQYKTKSSYKAFASIPYK HIAFGTEDS/STTLPRAGRETK YANLSSPTSTVSESQAD
9806	40174	A	9867	123	417	SLDLDLFTVSGLLSDSSGILTR NLEVSAN*VWVGSLLTVGTNV KIRGLASEPPAETVSFSSKFLFN KLLFSRFSSSILKENEKERKNER HRGSNSV
9807	40175	A	9868	153	1624	TTRRKS MNPTLSGKYLEDNSDL FSEQALDEPAKTESVSKDNTLE PPVELYFPAQLRQQTEELCATID KVLQDSL SMAPLSPTKQASSS LAYMNVERTPSPTLKSNTMLSL LQTSTSSSVGLPPVPPSSSLSLK SKQDGD LRGPENPRNIHTYPST LASSALSSLSPPINQRATFSSEK CFHPSPALSSLINRSKRASSQLS GQELNPSALPSLPVSSADFASLP NLRSSS/APSCQSAHPGAPAQSL SSAPT C GSGTLPSRLGKSESTTP NHRSPVSTPSLSISLTRTEELISP CALSMSTGPKNKKSKTPTTLPR AAGRETKYSKNDYLT LNAGS QQRDQAKLTCPEVSGTILQE REFEANKLQGMQQSDLFKA EY VLIVDSEGEDEAASRKVEQGP GGIGTAAVRPKSLAISSSLVSDV VRPKTQGTDLKTSSHPEMLHG MAPQQKHGQASAYKGEESNEE DWTILKSSRMTNPRKLSDNKI
9808	40176	A	9869	1	762	

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9809	40177	A	9870	1	537	
9810	40178	A	9871	490	681	MGLVLLHVGKLGSSWLRNGSQ ETAGQIISPLSSWHDGTGAGAAL DFSPGLSCLPVR*GSRRAAPH
9811	40179	C	9872	258	527	
9812	40180	A	9873	1	2865	MLPAFEHQTPSSSAFGLLNQQ WVVRGSRAFGHRLKAALSGSL LLKFSDSDWLPCSSACRGPVIG LHLVIVYVKSHQNA YRHKN IQL KQTLSCNTTKVRSFIIEVSETR NPPAGTNSGHILGTCPGYRYAK GKETGKEIHKGPQNPPGYRLCPL QAVGGGEFGPTQVHVPFSLSDL KQIRVDLGKFSDDPDRQYPLRP EAHEGLQDILRYLKVQGLVRK CSSPCNTRILGVQKPKGQWRLV QDLRFINEAVIPL
9813	40181	A	9874	3	177	
9814	40182	A	9875	255	1299	AAVFPLWCWTRGKCHSLEWR PCTVCSWPDSPPKVSAGQALCG SETLPLTQTPDIQVPATLES GHP ANLLVSAAWKSRKSLIFSWTW GTVISLGPRTPHFSEITIPLPWS HGSSITFQVTFPRFHVTTMTIQ LNVSSPVALENATSLSVLKNQS LRFVYVTD SNPPARLSWTWEG QALNLSQSSESAVLELPPVESC DGGEFVCQAQHPLGSQHVSISL SVQSDSVISIEEGLVQLTGFTLIR GILMGTSCTFICGFTWICCTSPVI PKPGTQSCFSTRDSATLPDAG SPGPKRVWMCSESHQPLCAVP DEDEQELHYAVLHFHKVQPQE PKVTDTEYSEIKIHK
9815	40183	A	9876	27	385	ASTTTGSGTSTAAARCTAWSPG PLVTAVEKFEAEAAALGQRIST LQKGSPDPLQVRMLNDQLMLL ERTFLNPRAFPEERYYS HVLWA /PSHGLRSHIPGLSNACSRARDT ASGSEAWAEG
9816	40184	A	9877	160	480	
9817	40185	A	9878	19	433	GLDHGWAGDRWRTRPVVGAG EGRAPRLNSPSGQIRSPGPGDLS IYDNWIRYFNRSSPVYGLVPAGF SSHQAVARTAGSVILRLSDSFFL PLKVSDYSETLRSFLQAAQQDL GALLEQHSISLGPLVTAVEKFE AKAAAL

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9818	40186	A	9879	1	996	MALSKERSTVTRTQWARKTML QGETIQISESVSTYLRPYSVSGT VLGTNMSKTSARIYPTYHTAFD TFDYVDKFLDPGFSSHQAVART AGSVILRLSDSFFLPLKVSDYSE TLRSFLQAAQQDLGALLEQHSI SLGPLVTAVEKFEAEAAALGQR ISTLQKGSPDHVLWA/PSHGLRS HIPG\LSNACSRARDTASGSEA WAEVQRQLSIVVTALEGSVEAL HEVLQLPAALRACPLRKALAV DAAFREGNAARLFRLQLTPYL PSCAVQCHVG HARREALARFA RAFSTPKGQTLPLGFMVNLLA WMDSGKHGTCARPTGCPWTER RELCS
9819	40187	A	9880	66	744	RAHEDRERSGVQIRTQSWNGG KREKDFLHQSG\ETLLMKGC WRKSKTSARIYPTYHTAFDTFD YVDKFLDPGFSSHQAVARTAG SVILRLSDSFFLPLKVSDYSETL RSFLQAAQQDLGALLEQHSISL GMHSPDPEVRMLNDQLMLLER TFLNPRAFPEERYYSHVLWA/PS HGLRSHIPG\LSNACSRARDTAS GSEAWAEVQRQLSIVVTALEG AAATLRPVADL

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9820	40188	A	9881	2	2241	PRVRRMQWTKVLGLGLGAAA LLGLGIILGHFAIPKKANSLAPQ DLDLEILETVMGQLDAHIREN LRELSREPHLASSPRDEDLVQL LLQRWKDPESGLDSAEASTYE VLLSFPSQEQPNVVDIVGPTGGI IHSCHRTEENVGTGEQGGPDVVQ PYAAYAPSGTPQGLLVYANRG AEEDFKELQTQGIKLEGTIALTR YGGVGRGAKAVNAAKHGVAG VLVYTDPADINDGLSSPDETFP NSWYLPPSGVERGSYYEYFGDP LTPYLPAVPSSFRVDLANVSGF PPIPTQPIGFQDARDLLCNLNGT LAPATWQGALGCHYRLGPGFR PDGDFPADSQVNVSVYNRLEL RNSSNVLGIIRGAVEPDRYVLY GNHRDSWVHGAVDPSSGTAVL LELSRVLGTLLKKGTWRPRRSI VFASWGAEFGLIGSTEFTEEFF NKLQERTVAYINVDISVFANAT LRVQGTTPPVQSVVFSATKEIRSP GPGDLSIYDNWIRYFNRSSPVY GLVPSLGS LGAGSDYAPFVHFL GISSMDIAYTYDRSKTSARIYPT YHTAFDTFDYVDKFLDPGFSSH QAVARTAGSVILRLSDSFFLPLK VSDYSETLRSFLQAAQQDLGAL LEQHSISLGPLVTAVEKFEAEA AALGQRISTLQKGSPDPLQVRM LNDQLMLLERTFLNPRAFPEER YYSHVLWAPSHGLRSHIPG\LS
9821	40189	A	9882	1	1962	
9822	40190	A	9883	1	166	MEYYAALKKDEFMSFVGTWM KLETIILSKVCQGQKVKHHMFS LTGALLVRGPWA
9823	40191	A	9884	1	378	
9824	40192	A	9885	1	681	
9825	40193	A	9886	1	3174	MEYYAAIKNDEFMSFVGTWM KLETIILSKLLQGQKTKHRMFSL IGSIIVKVPSSLQAHLQLSGKEV DVNSEVHVQEMAEARKDDVV TVTDAEKALDKIQHLFMVKTLS KIGIQGTYNVIKAIYDKPTANII LNGEKLLAFPLRNETRQGCPLS PLLNTVLKVLARAVRQEKEIK GIQIGKEEVILSLFADDMIVHLE NPIVSAQNLLKLIDNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASER
9826	40194	B	9887	1	352	

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9827	40195	A	9888	3	430	FFFFLPVAGLRRPRPRLGPVPPR PRVPPPQDRAATMKKFFQEFKA DIKFKSAGPGQKLKESVGEKAH KEKPNQPA PRPPRQGPTNEGTD GSRCCPQP/WLEQKQSRAWGPH IAGHHPKPGEKGTSSRSRQRE PRGPRDQ RGI
9828	40196	A	9889	1	1062	MKKFFQEFKADIKFKSAGPGQK LKESVGWGRP NGLMSVKGN CECGNLWLLYPEVAALAAEAE GPEVGSVEDQRRQQGYFVRLG SLSARIRHLAYEHSVGLRQSK HRAQDTLAQLQETLELVDHMP CGVTPTAPARPGKVHELWGEW RQRPP/REPPPE\QAELET LVLAR SLTHELQGTVEALEFSVWGLPA GAQEKVAEVRRSVDALQTAF A DARCFRDVPAAALAEGRGRVA HAHACVDELLELVVQAVPLPW LVGPFAPILVERPELPDLADLV DEVIGGPDPRWAHLDPWAQQR AWEAEHRDGSNGDGD RMGV AGDICEQEPETPSCPVKHNPDA RAGLLTHGPVEAG
9829	40197	A	9890	11	285	
9830	40198	A	9891	2	138	FFFLGFHV FYSIPLIPRDN SF*GV FSSLDLITAVFVTLAELRSVT

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9831	40199	A	9892	121	2320	EMAFQKAVKGTILVGGGALAT VLGLSQFAHYRRKQMNLAYVK AADCISEPVNREPPSREAQLTL QNTSEFDILVIGGGATGSGCAL DAVTRGLKTALVERDDFSSGTS SRSTKLIHGGVRYLQKAIMKLD IEQYRMVKEALHERANLLEIAP HLSAPLPIMLPVYKWWQLPYY WVGIKL\YDLVARKANCLKSSY VLSKSRALHFPMLQKDKLVG AIVYYDGOHNDARMNLAIALT AARYGAATANYMEVVSLLKK TDP\QTGK\HVSGARCKGCPST GQEFDVRAKCVINATGPFTDSV RKMDDDKDAAA\CPQSAGVHIV MPGYYSPEMGLLDPATSDGR VIFFLPWQKMTIAGTTDPTDV THHIPSEEDINFILNEVRNYLS CDVEVRRGDVLAASWGIRPLV TDPKSADTQSISRNVVDISESG LITIAGGKWTTYRSMEDTINA AVKTHNLKAGPSRTVGLFLQG GKDWSPTLYIRLVQDYGLESEV AQHLAATYGDKA FEVAKMAS VTGKRWPVIGVHLVSEFPYIEA EVKYGIKEYACTAVDMISRRT LAFLNVQAAEEALPRIVELMGR ELNWDDYKKQEQLTARK\FL YYEMGYKSRSEQLTDRSEISLL PSDIDRYKKRFHKFDADQKGFI TIVDVQRVLESINVQMDENTLH EILNEVDLNKNGQVELNEFLQL

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9832	40200	A	9893	1	2020	MLKPLMGGGAHRRRAAAGARK WDGTAAHASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPQTGKVRVSGARCK DVLTGQEFDVRAKCVINATGPF TDSVRKMDDKDAAANCAISA GVHIVMPGYYSPEMGLLDPAT SDGRVIFFLPWQKMTIAGTTDT PTDVTHHPIPSEEDINFILNEVR NYLSCDVEVRRGDVLAASWGI RPLVTDPKSADTQSSSRNHVVDI SEGLITAGGKWTYRSMED TINAAVKTHNLKAGPSRTVGLF LQGGKDWSPPLYIRLVQDYGL ESEVAQHLLAATYGDKAFAVAK MASVTGKRV/WPIVGVRLVSDF PYIEAEVKYGIKEYACTAVDMT SRRLAFLNLQAAEEALPRLL ELMGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSDIDRYKRRCHKFDAD QRGFMTVVEVQRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGSRLAI LMKTAEENLDRRVPIPVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQTFTVSVTALKV ARLELFVSPGGLVLLGSGVKL QIFAPNMAMHNKAAPPQIPDTR RELAELVKRKQELAATLAKFG
9833	40201	A	9894	2	593	ISSAVEFETSQLSGLWTEQSAA RSRGENVCGPQGPRG/GPWVP AEPTGSPVVSEPLDLLPTDLR QEMPPPRVFKSFLSLLFQGLSVL LSLAGDVLVSMYREVCSIRFLF TVVSLNLFSAFWLGLLYLV PLENEPKEMTLSEYHERVRSQ GQQLQQLQAELDKLHKEVSTV RAANSERGAKLVFQRLNEGFV

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9834	40202	A	9895	1	1105	MRRSSRPGSASSSRKHTPNFFSE NSSMSITSEDSKGLRSAEPGPGE PEGRRARGPSCGLLFQGLSVLL SLAGDVLVSMYREVCSIRFLFT AVSLLSLFLSAFWLGLLYLVSP LENEPKEMLTSEYHERVRSQG QQLQQLQAELDKLHKEVSTVR AANSERVAKLVFQRLNEDFVR KPDYALSSVGASIDLQKTSHDY ADRNTAYFWNRFSFWNYARPP TVILEPHVFPNCWAFEGVQGG VVIQLPG/HECTLSDITLQHPPTS VEHTGGANSAPRDFAVFFLLSF FTHQGLQVYDETEVSLGKFTFD VEKSEIQTFHLQNDPPAAMPKV KIQILSNWGHPRFTCLYRVRAH GVRTSEGAEGSAQGP
9835	40203	A	9896	10	395	VEPGKRLIDRIVETICSCFQGPQ TDEGVQLQIIKALLTAVTSPHIEI HEGTILQTVRTCYNILASKNLI NQTTAKATLTQML/NHARSDSG KVSTENGDAERERGSSLSGTN\ DGAQEVVKDILEDVVT

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9836	40204	A	9897	1	1698	MLGTSVEDIAQFLHQEERLDST QVGDFLGDSARFNKEVMYAYV DQLDFCEKEFVSALRTFLEGFR LPGEAQKIDRLMEKFAARYIEC NQGQTLFASADTAYVLAYSIIIM LTTDLHSP/PDLEMHQ PAGARS ADNRNCEALPVWIWA*KRRE PEGPHIGRRRVHGPWPR*FGEW RSG*KTDGQLPRIGW*DQLAEC GCSCGQDFYWVYQTGWKCNS* LCPLAVCCVHG*TGFPSSSHV QLAEDCGDIILQHESDPTTVVS NMACDWRS LQ*DKL*MLGTSV EDIAQFLHQEERLDSTQVGDFL GDSARFNKEVMYAYVDQLDFC EKEFVSALRTFLEGFR LPGEAQ KIDRLMEKFAARYIECNQGQTL FASADTAYVLAYSIIIMLTTDLH SPQILKCISQLELAQLIGTG VKT RYLSGSGRERESLKGHTLAGE EFMGLGLGNLVSGGV DKRQM ASFQESVGETSSQSVVVA VDRI FTGSTRLDGNAIVDFVRWLCA VSMDELASPHPRMFSLQKIVE ISYYNMNRIRLQWSRIWHVIGD HFNKTSCDRLRELHVSEVFTVI TETRETKGPRDTPIFIETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPMMSTFKVLLCG AVLSRIDAGQEQLGRRIHYSQN DLVEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLTTIG
9837	40205	A	9898	1	492	
9838	40206	A	9899	1	3555	
9839	40207	A	9900	1	4145	MFVLKVGCP SLLL RDP RRSLLH YTCFTSVPVLVQVCNP NEDV AIFAVDSLRLQSMKFLEKGELA NFRFQKDFLRPF EHIMKKNRSP TIRDMAIR CIAQMVNSQAANIR SATIFQHHFPA AIDSFQDAVKCL SEFACNAAFP DTSMEAIRLIRF CGNYL\SERPRVLLEYTSDDMN VAPGDRVWVRGWFPILFELSCII NRCKLDVRTRGLTVMFEIMKS YGHTFEKHWWDLFRI VFRIFD NMKLPEQLSEKS

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9840	40208	A	9901	1	5477	MQESQTKSMFVSRLEKILADK EVKRPQHSQRLRRACQVALAWK LLLIAPLAVGKATPVKMWSNK VEQLTVMNMHSAEQETDEIKA EIEKQRLGTAAPPKANFIEADK YFLPFELACQSKSPRVVSTSLDC LQKLIAYGHITGNAPDSGAPGK RLIDRIVETICSCFQGPQTDEGV QLQIIKALLTAVTSPHIEIHEGTI LQTVRTCYNILASKNLINQTT AKATLTQMLNVIFTRMENQVL QEARELEKPIQSK
9841	40209	A	9902	2	740	TGWEGRAEAEVPQDDRREPRH S/IEVEEEDQKLVSASLEPIGG/P PDCPQKPQ/PQCPLSPSKWGC DLCL*QHKLAQKWRREISTSVP SQPGLGPGR TADTGPSLPT\TPA GQEAGRTPAPPAWSAFDL DST VVKMEKGWICS*KYTRSQASC SELPRRLGRAGPTEELGMPTQE VAPLPARG*GPESLPL/ASRQEF LSGRTVRVKLGLPLPLTEGKIV LPGGEGGSPHVCPSPWIIERRTA DQGVVAE
9842	40210	A	9903	1	1376	MPSSSVGPAPPSLRGSSEQLAW LRGIFSyrSSPPSPQSSPNQTR SRQHYAPSVFEKYTASVTVGSK EVTNLNYDTAALAGPWPALHS WRPLRGAGCGALEAKPYTKQ WAALGPPMVPGLLRYLLWSLQ TLATPGQRPREGPHAHTPRAEA TAGQEPARDPKGSARNPEPQRP RGKGVRAAPKQGV RGMSIPAQ PHASTRAGSERRSE\QRRLLSSF TGSCDSDLLKFNQLKFRKKKLK FCKSHIHDWGLFAMEPSGDPLE SAWIHARNAPTTTSPQTPHPPPR EAGNP NPPRAPEARPGHDKA AQKACVHGGPNTQHPRPQPEP AVPPAALAPPPKHQLSSQASSPS RLGRAAERPHKTQQRQTPTHT GPRAAATAEHAPQALPPPAPAP HYNRTRPAQLRNPPTPKKGSEE PAQPTKHTPATPAKRDPKGGG ARRRPARPLQPHSGGEDEKES

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9843	40211	A	9904	724	2076	KLCPCLYHFFHTNVQRHAPFVA NPFLLTTHIQISTKHPAIVGTTELL LCVGGVQVRVLQAPQRLQLLA QVPALLRLGPGHTLRLQVLLG LGQGCLSLPQGFQQLGPGPTLV FCPLPELLEEDAVGEALATDAD ALQDPVAAKL VQHQPWLQLPG LGKQPPPLPVSQLEVGRAVPLH HPQGALLLLALLEGLQSLLPRV HSPFLHDTFRRHRVPASLQLN SFEQLCITTPQKLQQLFNHTMF VSPPAVNVQANPAGLLALLDEE CWFPKATDKSFVEKVAQEQQG HPKFQIRPRHLRDQADFSVLHY AGKVDYKANEWLMKNMDPLN DNVAALLHQSTDRLTAEIWKD VEGIVGLEQVSSLGDGPPGGRP RRGMFRTVGQLYKESLSRLMA TLSNTNPSFVRCIVPNHEKRAG KLEPRLVLDQLRCNGVLEGIRI CROGFPNRILFQEFRQ
9844	40212	A	9905	2	480	VGCMGCSKGPWRQAFQVDVH VSDLALPQCRLQTGMRGAFGK PQGTVARVHIGQVIMSIRTKLQ NKEHVIEALRRAKFKFPGRQKV CSAAAPFSLCPRPPDSVLSIAP *IHISKKWGFTKFNADEFEDMV AEKRLIPDGC GVKYIPSRGPLD KWALHS
9845	40213	A	9906	1	485	SDEYDQLCSEALVGAQICAKK YIVKCCGKNGFHIRVRLHPFHV ICINRMLACAGTDRLQTGMGG AIGKPQGTVARILIGQVIMSIRT KLQNKEHVIEALRRAKFKFPGR QKIHISKKWGFTKFNADEFEDM VAEKRLIPDGC GVKYIPSRGPL DKWALHS
9846	40214	A	9907	198	452	DYYLEGLINHIVHHDHFLNLQN HSSNLPVAEICYR*RYRKKVQQ RIIIAKDYTTTELFNSR*LFN

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9847	40215	A	9908	2	1968	SYLHCKWATMEELEKDPRIAQ KIKRFRNKQAQMKHIFTEPDED LFNPDYVEVDRILEVAHTKDAE TGEEVTHYLVKWCSLPYEEST WELEEDVDPKVKEFESLQVLP EIKHVERPASDSWQKLEKSREY KNSNQLREYQLEGMNWLLFN WYNRKNCILADEMGLGKTIQSI TFLSEIFLRGIHGPFLLIAPLSTIT NWEREFRTWTEMNAIVYHGSQ ISRQMIQQYEMVYRDAQGNPL SGVFKFHVVITTFEMILADCP ELKKIHWSCVVIDEAHRLKNRNCK LLEGLKLMALEHKVLLTGTP LQNSVEELFSLNLFLEPSQFP SETAFLEEFGLDKTEEQVKKL QSIKPMMLRRLKDDVEKNLAP KQETIIEVELTNIQKKYYRAI LEKNFSFLTKGANQHNMPNL INTMMELRKCCNHPYLINGA EEKILEDFRKTHSPDAPDFQ LQGMIQAVAGKLVLIDKLLP KLIAGGHKVLIFSQMRCLD ILEDYLIQRRYTYERIDG RVRGNLRQAAIDRFCKPDS DRFVFLLCSTRAGGLGINLT AADTCIIFDSDWNPQNDLQ VPEGRIQKVWEQMSWPRAQ PQDNAAAACLQDFGSQ LGVQSEETGPFHNRQK QDSGNSHTAPRGRESFIKPPSSR DLLPLKIQKEGPATNYNS
9848	40216	C	9909	223	402	

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9849	40217	A	9910	1	1710	MFEKAARQEWIQVAKSVTRVAMSSYTFQKNPDLISVGEDVEKKLELSYAAVTMAWGOYGDYGYPYQQYHDYSDDGWVNLNRQGFSYQCPQQGVIVAVRSIFSKKEADSVSRASATGPDGQFFLLERVGTCCTTAAEQPQRDDPYLVRTVEGLSRTVEGVGRGLTQAAAGEGAGAVEAAW/NSLCGPFSSTPMASDEETEAIRGHETRPDDTAKNSGAIQQHSQCSWPLY/RAPHSVKRYQTCSNGLVAGFQSRYFESVLDREWQFYCCRYSKRCPYSCW/LSLAADQTLMTPGVGEAPRKCSSFRRKGNRTIEPALTGPKSPTYSVGMPSLKLRPNDSHPSAVLLLPNFWLTTEYPGHYGEEMDMISYNYDYYIRGATTTFSAPERKEERRERKGIGDKKHTEPTVLVWAAIPHYLRRLGNLRTIEIYFHSSGSWKVQDQVDPEEPARQNHDRVPCHTPPLGGQEGDSQPVVMRAKDHYELEKQKALGQVEDEEDLCQQQRLPEQTYGSEEAPQEAKKNLGSPEPNSQAGAQPISMATNRAVFDVTCNFSPHWLQCLQSRSLSPEDPGL
9850	40218	B	9911	101	1237	
9851	40219	A	9912	1	622	NLSDRHRGSHLESQHFQRLKQEDLLSPRIQDQPGQHWETLSHINIVVIGHVDSGKSTTTGHLIYKCGIDKRTIEKFEKEAAEMGKGSFKYAWVLDKLKAER\ERGITIDISLWKFETSKYYVTIIDAPGHRDFIKNMITGTSQADCAVLIVAAGVGEFEAGISKINGQTREHALPG/YSQLRYEEIVKEVSTYIKKIGYTPDTVACVP
9852	40220	A	9913	1	762	VVQTQISKTADELISYWGTSFPPFAASLTLYELEYCITIDISLWKFETSKYYATVIDAPGHRDFIKNMITGTSQADCAVLIFAAGVGEFEAVTFAPVNVTTTEVKSVMHHVVLSEALPGDNVDFDVKNVSVKEVHHGNVAGQISAGCAPVLDCHMAHIACKFAKLKKKTGSTSGKKLEDGPTFLKSGDAAIVDMVPGKPMCVESFSVYPPLSRFAVCDMRQTVAVGVIEAMDKMAA\GAGKVTMSAQKAHNAK

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9853	40221	A	9914	1	618	MVQARPGAHPTLLPGPTAAWV SGFSGGSDLTGAREAQERGR WSPTSSSASVSPVAKVSKFTLS SELEGGDYPKERERTGGGPGRP PDWTPHGTGAILQSPHPRTAPA PHPTPCGRPRDAGQRSPGAPA WSPRVHRPTPSLLPPRRWTAAA LWAAWQRPLPASQPGRGTSPG NPGPGRTPPSPQEVGSPGHIHIS LRTGFPPTL
9854	40222	C	9915	3	406	
9855	40223	A	9916	1379	2096	NGGGCGAARGGAAPGEGTRRG ACWATRGLPGTGRSAAAPARR GERQQLAMDVFLMIRRHKTIF TDAKESSTVFR/ELKRIRRGQSS KRPPDEQRL\YK\DDQLD\DG\ KTLGECGFTSQNRHRPQAPAT VGSGLPASSAASSTDDTFEALCI EPFSSIPPEL\PDVDGRPQGFEG SAQLNKAVQVETPQEGPIFPQL KGDGSLPGCCLFFPPLPGMGP TPCGLLLGLVLGSSCAVLSPRS
9856	40224	A	9917	1	695	MAHAGRTGYDNREIVMKYIHY KLSQRGYEWDAGDVGAAPPG AAPAPGIFSSQPGHTHPAASRD PVARTSPLQTPAAPGAAAGPAL SPVPPVVHLALRQAGDDFSRRY RGDFAEMSSQLHLTPFTARGRF ATVVEELFRDGSVNREMSPLIV DNIALWMTEYLNRLHTWIQD NGGWPWDFLIGATTPTVITYLP YHSTEEQLINVKGTAEFKIPFA KPDEMIQAKIIDGC
9857	40225	A	9918	3	422	CSLKNWREVLALLTYSGTEKF PELCDLMEKVMVLNRSLEQLR GPH/GGSAVLGQQSPFPFPRIV VGATLHSETSSYRLGSQPSHQ VPTSPRPRVFTPQSSPAMPLAP SHSPYQGPRTQNISDYRAPGP QAIQPLPL
9858	40226	A	9919	1	849	

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9859	40227	A	9920	3	868	NSSPPFFPRIVVGATLHSEKTS SYRLGSQPSHQVPTSPRPRVFT PQSSPAMPLAPSHSPYQGPR QNISDYRAPGPQAIQPLPLSPGV RPGPQDSWKEAPAPRGNLQRN KLPETFMPPAPITGPS/IM/RPHP* ATRDSSTAPLSPV*VMLPQEF QENS\PAGDKDNVFP SLGKPPSP PCVQVMVDGPHSSR/PCAEGD WVQVPGVLTAEKGRLLISPTLL *WEQDCESLGTSP*GSHEKDS LPLWPFSLLLYQQLQHLPEKEM ERKELPPEHQSLKSSFEALLQRC
9860	40228	A	9921	1	307	MKLKELERPAVQAWSPASQYP LYLATGTSAQQLDSSFSTNGTL EIFEVDFRDPSLDLKHGRVLSA LSRFHKL VWGSFGSGLLESSGV IVGGDNGMLILYNVTHILSSG KEPVIAQKQKHTGAVRALDLN PFQPPEDIKALSWNRQAQHILSS AHPSGKAVVWDLRKNPEIHKVS DHSNRMHCSEGLAWHPDIATQL VLCSEDDRLPVIQLWDLRFASS PLKVLESHSRGILSVSWSQADA ELLTSAKDSQILCRNLGSSEPC PRLVFISQVTTESEFLMRSAELQ EALGSGNLLNYCQNKSSQALL QSEKMLWQFLKVTLEQDSRMK FLKLLGYSKDELQKKVATWLK SDVGLGESPPKGNLNSDRQ QAFCSQASKHTTKEASASSAFF DELVPQNMTPWEIPITKDIDGLL SQALLLGELGPAVELCLKEERF ADAILAQAGGTDLLKQTQERY LAKKKT KISSLLACVVQKNWK DVVCTCSLKNWREALALLTY SGTEKFPELCDMLGTRMEQEGS RALTSEARLCYVCSGSVERLVE CWAKCHQALSPMALQDLMEK VMVLNRSLEQLRGPHGVSPGP ATTYRVTYANLLAAQGSLAT AMSFLPRDCA/PAARDIYAPSTN YCSSYEHPH*ATRDSSTAPCLQ SASAPAT*EDGKEGAAPRASVL EEQL*GASPTLLPVCN*LKDKK

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9861	40229	A	9922	3	2751	SVSWSQADAELLTSAKDSQIL CRNLGSSEVVYKLPTQSSWCFD VQWCPRDPSVFSAASFNGWISL YSVMGRSWEVQHMRQADKISS SFSKGQPLPPLQVPEQVAQAPLI PPLKKPPKWIRRPTGVSFAGG KLVTFGLPSTPAHLVPQPCPRL VFISQVTTESEFLMRSAELQEAL GSGNLLNYCQNKSQALLQSE KMLWQFLKVTLEQDSRMKFLK LLGYSKDELQKKVATWLKSDV GLGESPPQPKGNDLNS
9862	40230	A	9923	363	543	
9863	40231	A	9924	2	737	EAETEFVRCIKHMFTNHIVFQ LFHLLTFQFDCTNTLNDQLEK VTVQMEPSESYEVLSCIPAPSLP YNQPGICYTLVRLPDDDPTAVA GSFCTMKFTVRDCDPNTGVDP EDGNDDEYVLEDLEVTVDHIQ KVLKPNFAAAWEEVGDTFEK EETFALSSTKTLEEAVNNIITFL GMQPCERSDKVPENQD\SHSL YLAGIFRGGYDL\LVRLALALA DGVMTMQVTVRCKHRTVPDIILA
9864	40232	A	9925	327	464	GSPTTRPAKPLTLSSGHLRSRPR WAEGPQYHLP*ISAPRAKLGV MM
9865	40233	A	9926	2	1179	WQPDIGPYGGLN\VVVDGLFII GWMYLP\PHDPHVDDPMRFKPL FRIHLMERKAATVECMYGHKG PHHGHQIVKKDEFSTKCNQTD HHRMSGGRQEEFRTWLREEWG RTLEDIFHEHMQELILMKFIYTS QYDNCLTYRRIYLP\SRPDDLK PGLFKGTYGSHGLEIVMLSFHG RRARGTKITGDPNIPAGQQTVEI DLRHRIQLPDLENQRNFNELSRI VLEVRERV\RQEQEGGHEAGE GRGRQGPRESQPSAQ\PRAEAP SKGPDGTPGEDGGEP\GDAVAA AEQPAQCGQGQPFVLPVGVSSR NEDYPRTCRMCFYGTGLIAGH GFTSPERTPGVFILF\DEDRFGFV WLELKSFSLSRVQATFRNAD APSPQAFDEMLKNI\QSLTS
9866	40234	A	9927	287	537	TGKFPSC/CLLSFYGTGLIAGHG FTSPERTPGVFILF\DEDRFGFVW LELKSFSLSRVQATFRNADAP SPQAFDEMLKNI\QSLTS
9867	40235	A	9928	1	3651	

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9868	40236	A	9929	1	3720	MEEMFGGGAADDY GKAGPPE DEGDPKAGAGPPP GPAYDPY GPYCPGRASGAGPETPGLGLDP NKPELPSTVNAEPLGLIQSGPH QAAPPPPPPPPPAPASEPKGG LTSPIFCSTKPKLLKTSSFHLL RRRDPPFQTPKKLYAQEYFEA DEDKADV PADIRLNPRRLPDLV SSCRSRPALSPLGDIDFCPPNPG PDGPRRRGRKPTKAKRDGPPRP RGRPRIRPLEVPTTAGPASASTP TDGAKKPRGRG
9869	40237	A	9930	503	739	QGWRRRRPISKISESRNMQNFL HALSNCLPEGGA*DRCSSRLEE GRQLPPLLGLSLQVAKKSGGTG WMVRCSQCLFLG
9870	40238	A	9931	1	1148	MGGKGDDSWVISATPLGKCCA AVPLGGNPTLRVDQLWRKQRP PLQQCTASAPGGWVTS LMAGAG THAANTGFQLVWSSKRPMYKV LQAFFGVQRSDRSAMNGQGFS KCVGMPITHTRQQADLGRGPE ETEDKKQQSRGSDEL RSEGEEP EPYLLRTSKIVKDKERILKAARE MKQIIYNGAPIHLAADFSVETL QAKKEWCDIFKVLKKKTFYPK MVLTAGPSHPQSVISVSFTGLA NAASLTMSPD LHGQPGFAGLSS VAAVDWQWALLRSP PQGRM GLLPICQATQGPQLCVASPSDK EGFLLLFGKEIARLTNKG GARL YKCDIVQGVCCEDPLATLDWE LRPDLEQGERPTPERHKPFLLG KSFSAPLIKICRYEWQMF
9871	40239	A	9932	333	689	NSFLTCLPPVSI*TDLLQPSAQ WKQLSLARRNVHSTRLAGARR CAASGSPVAAHCYHPVSGHSR LLHGCQHGHWSWQVPEVPPG SPFSLAPVWKRRTALPAILHL PVEHYYPEL

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9872	40240	A	9933	84	933	PLTSPEAFSNRCGLRGPP\PCVP VGRLQF\NDVSSLGICLPDSSCC SSWHGPHSLHH/HVQACKASIR ASGTAASANCAFSRYHVHCSIA FQIKVLHNLIVLTVIIPAAEHMA WGP GIAQPNPPHRASGHSSWGP EVGPKLSTTAILVGTPQVPPV GLETGPPSLFQPLPISTHTAWNT ENCPANATVIAHPTLAAQGTKN PPTLLVHHCHYQHLSLKDDGT RRENSLKLGEKGVILQTEGIQK GMDPTMEYATNYWKKLQLWK RRQTALPAILHLPVEHYYPEL
9873	40241	A	9934	1	627	MESLDTETSTWGECHRKIRGM VPQVKELAEIEEEAPPDGA VAEYRREKQKYEALRKQQSKKGTS REDQQIIKNLPCTNHCIWQSTH EHIPALSDLSGKRAKQVIPVKG GEHYERTLALLNQFKSKLTQAI AETPENDIPETEVEDEDEGWMS HVL\QFEGKSRKSGKVPSMQDS DTFEIYDPRNP/LVNKRREGKK AKSLMREKKERRLK
9874	40242	A	9935	1	371	PMRPAFTRVEMARVLMERNQY KERLMELQEA VRWTE MIRASR EHPSVQEKKKSTIWQFFSRLFSS SSSPLRPKRPYPSVNIHYKSPT E GCSVAAGFSPPCHLHCDVCPL PRLFPQDLEVTPG
9875	40243	A	9936	2	186	
9876	40244	C	9937	109	408	
9877	40245	C	9938	161	341	
9878	40246	C	9939	303	439	
9879	40247	C	9940	201	419	
9880	40248	C	9941	122	307	
9881	40249	A	9942	3	80	YNPAPYKEKTITL/PCPRKLGPP QGS/S*NGPPSSSSSSQCSVSFND PHLPEGQVQAAR*WAPPGIL
9882	40250	C	9943	249	427	
9883	40251	A	9944	90	244	TVVPHDPCGTDAHVCETHMD MCPSHSMVLCGWLTFAEFRGA MGEGGRESFLLNQASFCY*CSQ AGFSSNLWRCSRAGRGN TADE LWCHMTLVAQMPTYVKHTWT CVPATVLCVAGSPLLSSGVQW GREGGKASS
9884	40252	C	9945	4	204	
9885	40253	C	9946	340	497	
9886	40254	C	9947	158	184	

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9887	40255	A	9948	200	386	LFYTME*IMAFLLSSSSSPGRPF* RILGGAKVYAGMQRYSFLLIGS RIITYLGIFGRELYFC
9888	40256	B	9949	47	622	
9889	40257	A	9950	1	630	
9890	40258	A	9951	1	782	
9891	40259	A	9952	1	677	MHGLGRWDACPQDEMSESGQ SSAAATPSTTGTKSNTPTSSVPS AAVTPLNESLQPLGDYGVGSK NSKRAREKRDSRNMEVQVTQE MRNVSIGMGSSDEWSDVQDIID STPELDMCPETRLDRTGSSPTQ GIVNKAFGINTDSLYHELSTAG\ S*VIGDVDEGADLLGNDRKK VYTSVQTRPPQACTFSVRLVES THAELVGIEGRLYHKIHLRVH GAVGYSVLT
9892	40260	C	9953	202	366	
9893	40261	A	9954	1	2429	MKEGGWGCDPVGRGVTSGHV LQMKLLPFRQKKAHIMEIQLNG GTVAEKVAWAQARLEKQVPV HSVFSQSEVIDVIAVTKGRGVK GVTSRWHTKKLPRKTHKGLRK VACIGAWHPARVGC SIARAGQ KGYHHRTELNKKIFRIGRGPHM EDGKLVKNNASTSYDVTAKSIT PLGGFPHYGEVNND FVMLKGC IAGTKKR VITLRKSLLVHHSRQ AVENIELKFIDTTSKFGHGRFQT AQEKRAF MADGLSLSPAASDS DYPPGEMFLDSDVNPEDPGAD GVLAGITLVGCATRCNVPRSNC SSRGDTPVLDKGQGEVATIANG KVNPSQSTEEATEATEVPDGP SEPETATLRPGPLTEHVFTDPAP TPSSGPQPGSENGPEPDSSSTRP EPEPSGDPTGAGSSAAPT MWLG AQNGWLYVHSAVANWKKCLH SIKLKDSVLSLVHVKGRLVAL ADGTLAIFHRGEDGQWDLSNY HLMDLGPHHSIRCMAVVYDR VWCGYKNKVHVIQPKTMQIEA SAGQGPGEGRLLLASSSPASSI RKSTRPTHDS\KSFDAHPRRES QVRQLAWIGDGVWVSIRLDST LRLYHAHATHQHLQDV DIEPYVS KMLGTGKLGFSFVRITALLVAG SRLWVG TGNGVVISIPLTETVV LHRGQLLGLRANKTSPTS GEGA RPGGIIHVYGGDSSDRAASSFIP

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9894	40262	A	9955	9	452	KIKVLSKNSQVTDFFPVPTLLND GQCLGYNSTPYKEKAITL/PCPR KLGPPQGSFKTA/APSSSSPSFNF FNGSQNSVTNFWSSCFH*KVLI LKTNNLKLPHAKKTKVV/LQ NILLSF*RFYDALLSLTSLLLL LNGQLKQTMVRPFHH
9895	40263	A	9956	1	3223	ATATPSTTGTSNTPTSSVPSAA VTPLNESLQPLGDYGVVSKNSK RAREKRDSRINMEVQVTQEMR NVSIGMGSSDEWSDVQDIIDST PELDMCPETRLDRTGSSPTQGI VNKAFGINTDSL\YHELSTAGS\ EVIGDVDEGADLLGEFSGMGK EVGNLLLENSQLLETKNALNV VKNDLIAKVDQLSGEQEVLRG ELEAAKQAKVKLENRIKEEEE LKRVKSEAIARREPKEEAEDVS SYLCTESDKIPMAQ
9896	40264	B	9957	176	658	
9897	40265	A	9958	2	5671	AGGPCVRSSRELWTILLGRSAL RELSQIEAELNKHWRRLLEGLS YYKPPSPSSAEKVKANKDVASP LKELGLRISKFLGLDEEQSVQLL QCYLQEDYRGTRDSVKTVLQD ERQSQUALILKIADYYYEERTCIL RCVLHLLTYFQDERHPYRVEY ADCVDKLEKELVSKYRQQFEE LYKTEAPTWETHGNLMTERQV SRWFVQCLREQSMLLEHFLYY AYFEMAPSDLLVLTkMFKEQG FGSRQTNRHVDETMD
9898	40266	A	9959	1	404	MVDQEAIFGCKNRNNCSSHLEPP VSRLEGGAFVRDLLSPTQYLLA SCPYYQYDGSFVIQQIPSSNLFMV VVDSSCLCESVAPITMAPIEIRYI LLC\EVHSLPRKPENARECGGA PSL\QAQTVLLLLPLLLMLFSR
9899	40267	A	9960	1	1374	
9900	40268	A	9961	102	205	

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9901	40269	A	9962	1	1527	MVPDAAVLAQLAIRARVNRRW PTGLSAPHLCGAACSRCHAAI AKYFGDALPACAKGCDHCQNP TAVRRRLEALERSSSWSKTCIG PSQNGGFDPELYEGGRKGYGG FSRYDEGSGSGSGDEGRDEAHK REWNLFYQKQMLRKKGDPKI EEFVPPDENCPLKEASSRRIPRL TVKAREHCLRLLEEALSSNRQS TRTADEAD\FRAKAVELEHETF RNAKVANLYKASVLKKVADIH RASKDGQPYDMGGSASCSAQ AEPPEPNEYDIPPASHVYSLKPK RVGAGFPKGSCPFQTATELMET TRIREQAPQPERGGEHEPPSRPC GLLDEDGSEPLPGPRGEVPGGS AHYGGPSPEKKAKSSSGGSSLA KGRASKKQQLLATAAHKDSQS IARFFCRRVESPALLASAPEAEG ACPSCEGVSGTPDWPQRSTQGR KMEPGDIRLPLPRLRSASGRGQ APARPETRAPLKSSPPLQRTHG KGKRPRFPARRTQRASLRRGHA PQPIPPS
9902	40270	A	9963	2	99	
9903	40271	A	9964	115	1360	ENGQLHVMVNLALDGVRSSLQK PRPFRLFPGFSLVLCMNREDD TARKEKTDHFIFTYTREGNLR SAKSLFSLVLGFISDNVDHIDSLI GFPEQIAEKLFSAAEARQKFTEP GAGLARALQKFTGGLWEVWVL CSLCFLLWKLDPICCKLGDEHE LLEHLTNEALSRY*PVTTTCR*IV SVLF*RLIQQDYRVMKRGLENL TLLDLSCKFSSKL*IILMLEEWP *RSCSSFSGTGLKVRLLVPSLIFL DSTI*YFACANWEFDHSNCKTE GWADQVLQIFLPCG*CSFSS*FQ VSYPTSRETAESCFRSTLSLVQN MHDEAAQRFCEKFPFL*SFLPFI CILKAVRLF*KLQFYKEKAPDC HGPVLKHEAISSQESKSKKRP FEESETEQNNSSQPSKQKYVCL AVEDWDLNSY

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9904	40272	A	9965	3	1026	DNVDHIDSLIGFPEQIAEKLFFA AEARQKFTEPGAGLRALQKFTE AYGSLVLCSLCLRNRYLVISEK LEEIKSFRELTCLDLSCCKLGDE HELLEHLTNEALSSVTQLHLKD NCLSDAGVRKMTAPVRVMKR GLE\NLTL\DLSCNPEITGGRA LGYPLFLFRGNL\CFRDISGDR GSRDIKTL\KHKLQTHIGLVHSK VPLKEFDHSNCKTEGWADQIV LQWERTVTAEVKPRETSEPIAA AQRFGYGRSRAEAPLK\CPHAD TH\MNSS\EKLQ\FYKEKAP\DCH GP\VLKHEAISKPRSPKSKKRP FEESETEQNNSSQPSKQKYVCL AVEDWDL\NSY
9905	40273	A	9966	1	289	VKHCLHRPILWDPWKTSGIQQ VLTPL*KAMEKLEAILLIICSLE AIGLITLPSLSMTQFLQLHVECC YVSPDQTPYFIDVETEAMKDEV TVHNPHG
9906	40274	A	9967	1	1413	MVPPNIAELKNLEVLNFLNNQ IEKLPTQISRLQKLKHLNLGFLS PCNSMNRLNISPQGFGLPALE VLDLTYNLNLNENYLPGNFFYLT TLCALYLSDNDFEILPPDIGKLT KLQILSNRDNNLISLPKEIRVLT QLKELHIQGNRLTVLPPELGSR GGSGSRFSAETATGGAQNAPPS VLGSAGTIFK\QRRNPSPAALRG GSVAA*PSPAAAKYGKDQREH LPTAAGDGVGWEPTRDIVGS ATAQALSQANAARGRLSTAQA AGSLHVECCYVSPGQTLYFTDV EIEAMKDESRGISILYKHRHLK VPLDQKLPSKSGHQPDGYGQH DHPQMTSLTRNIATLR
9907	40275	A	9968	1	619	MNRLNISPQGFGLPALEVLDL TYNNLNLNENYLPGNFFYLTTLCA LYLSDNDFEILPPDIGKLTQLQI LSNRDNNLISLPKEIRVLTQLKE LHIQGNRLTVLPPELASSRCGP LSHPYAGKRIPRNAVFKFEQNT PWHTPPKKAGREMLLDVTGFP EAATSKPPAFLHRRRGRGSWNP RSRSSSLQRTWPWPGSREAEYPP ASGA

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9908	40276	A	9969	810	1672	GLPSVTMSKSLKKLVEESREKN QPEVDMSDRGISNMLDVNGLF TLSHITQLVLSHNKLT MVPNIA ELKNLEVLNFFNNQIEELPTQIS SLQKCLKHLNLGMNRLNLTLP FGSLPALEVLDLTYNNSLSEN PG\NFFYL\TTLRALYLSDN\DF EILPPDIGK\TKLQILSLRDNDL ISLPKEIGELTQLKELHIQGNRL TVVPPEL\GNLGF*LGQKQVFK AENNPWVTPIADQFQLGVSHVF EYIRSETYKLYGRHMQANPEP PKKNNDKSKKISRKPLAANNR
9909	40277	C	9970	120	347	
9910	40278	A	9971	2	10018	LCVSPVTAGRPASRLREMEVEQ EQRRRKVEAGRTKLAHFRQRK TKGDSSHSEKKTAKRKGSADV ASVQEEESPVTKEDSALCGGGDI CKSTSCDDTPDGAGGAFAAQP EDCDGEKREDLEQLQKQVND HPPEQCGMFTVSDHPPEQHGM FTVGDHPPEQRGMFTVSDHPPE QHGMFTVSDHPPEQRGMFTISD HQPEQRGMFTVSDHTPEQRGIF TISDHPAEQRGMFTKECEQECE LAITDLESGREDEAGLHQ
9911	40279	A	9972	2	5196	APLDGEVELLQQKLREKLDEFN ELAIQKESADRQVLMQEEIQR LEEMNINIRKKVAQLQEEVEKQ KNIVKGLEQDKEVLKKQQMSS LLLASTLQSTLDAGRCPEPPSGS PPEGPEIQLEVTQRALLRRESEV LDLKEQLEKMGDLESKNEEIL HLNLKLDMQNSQTAVSLRELE EENTSLKVIYTRSSEIEELKATIE NLQENQKRLQKEKAEIEQLHE VIEKLQHELMLMGPVVHEVSDS QAGSLQSELLC
9912	40280	A	9973	1	8277	GEFGSEKKTALHEKEETLRLQS AQAQPFHQEESLSLQKKN HQVQQLKDQVLSLSHEIECRS ELEVQQRRERENREGANLLS MLKADVNLSHSERGALQDALR RLLGLFGETLRAAVTLRSRIGE RVGLCLDDAGAGLALSTAPAL EETWSDVALPELDRTLSECAEM SSVAEISSHMRESFLMSPESVRE CEQPIRRVFQSLSLAVDGLMEM ALDSSRQLEEARQIHSRFEKEFS FKNEETAQVVRKHQ
9913	40281	A	9974	1	393	

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9914	40282	A	9975	2	153	
9915	40283	A	9976	184	790	KFTKHISMNQEDLDPDSTTDVG DVTNTEEELIRECEEMWKDME ECQNKLSLIGTETLTDSNAQLSL LIMQVKCLTAELSQQWQKKTPE TIPLTEDVLITLGKEEFQKARGQ DLEMVLSTKESKNEKLKEDLER EQRWLDEQQQIMESLNLVHSE LKNKVETFSERIFNELKTKML NIKEYKEKLLSTLGEFLEDHFPL
9916	40284	C	9977	23	217	
9917	40285	A	9978	25	100	
9918	40286	A	9979	1	2850	
9919	40287	A	9980	108	1132	HPHQVETSRDVAGEQSHAVAF MSTGISQADVCRLEWFSAPNLK GRPRKKKPCPQRDSFSGVKDS NNNSDGKAVAKVKCEARSALT KPKNNHNCKKVSNEEKPKVAI GEEGRADEQAFVLALYKYMK ERKTRIERIPYLGFNQINLWTMF QAAQKLGGYETITARRQWKHI YDELGGNPGSTSAATCTRRHYE RLILPYERFIKGEEDKPLPPIKP RKQENSSQENENKTKVFGTKRI KHEIPKSKKEKENAPKPQDAAE VSSEQEKEQETLISQKSIPEPLPA ADMKKKIEGYQEFSKPLASR VDPEKDNEDQGSNSEKVAEE AGEKGPTPLPSAPL
9920	40288	B	9981	177	3543	
9921	40289	B	9982	63	374	

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9922	40290	A	9983	1	2023	MGGGSWAPTGLCPLQSLAMS PEKRKLAAQEGQFTEPRPEEP KEKLHTLEEFSEFFRAPEKDM VSMAVLPLARARGHLWAYSCE PLRQPLLKRVRHANVDLWDIAC QIFVDILPHQPACTSAVVGVS YPQSVSAWSCPSTVLLDSHTIL RYMGDYPQRQA WPTLELTDQIF TLALQHPALQDEVYCQILKHLT HNSDRHSEERGWQLLWLCTGL FPPSKGLLPHAQKFIDTRRGKLL APDCSRRIQKVLRTGPRKQPPH HVEVEAAEQNVSRICHKIYFPN DTSEMLEVVANTRVRDVCDSI ATRLQLASWEGCSLFIKISDKVI SQKEGDFFFDSLREVS DWVKK NKPQKEGEEASVELGEGVAGW VEGALAASVRPMPHPSIRSRVS LGCGNNQALGPGGAPVTLPYQ VYFMRKLWLNISPGKDVNADT ILHYHQELPKYL RGFHKCSRED AIHLAGLIYKAQFNND RSQLAS VPKILRELVPENLTRLMSSEEW KKSILLAYDKHKDKTVVEAKV AFLKWICRWPTVFGSAFF/EGEG KPCPTPGPPTQAASAQPSRPS VNQHTSWQTSEPSYPDVILIAIN RHGVLLIHPKTKDLLTTPFTK ISSWSSGSTYFHMALGSLGRGS RLLSETSLGYKMDDLTSYVQ QLLSAMNKQRGSKAPALAST

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9923	40291	A	9984	428	2502	VSKEIVYNKLLPYAERLDAESD LQLAQIKCNLGRAVQLQELWP GGLFWTRKLS/TRAGPLALSSLE LSPSGDPRVVTEPVKYSSRPPCH FPTGLPGSLPSLYVLRICFSRSV RVVVFPFGGPWVAQGP RPGR ETWGFTMLLR YIRLYGRKFSKE DHVLFIKLLYELVSIPKLEISMM QGFARLLINLLKYFPADATAEM LEEW RPLMCPFDVTM QKAITY FEIFLPTSLPPELHHKGFKLWFD ELIGLWVSVQNLPQWEGQLVN LFARLATDNIGYIDWDPYVPKG GPSKLVQKHLAGLFNSITSFYH PSNNGRWLNKLMKLLQRLPNS VVRRLHRERYKKPSWLTVPVDS HKLTDQDVTDFVQCIIQPVLLA MFSKTGSLEAAQALQNLALMR PELVIPPVLERTYPALETLTEPH QLTATLSCVIGVARSLVSGGRW FPEGPTHMLPLL MRALPGVDPN DFSKCMITFQFIATFSTLVPLVD CSSVLQERNDL TEVERELCSAT AEFEDFVLQFMDRCFGLIESSTL EQTREETETEK MTHLESLVELG LSSTFSTILTQCSKEIFMVALQK VFNFSTSHIFETR VAGRMVADM CRAAVKDWGKPGDLWNLGIQ WHVPSSEEVSAFYLLDSFLQP ELVKLQHCGDGKLEMSRDDIL QSLTIVHNCLIGSGNLLPPLKGE
9924	40292	A	9985	2	5396	AESDLQLAQIKCNLGRAVQLQE LWPGGLFWTRKLSTYIRLYGR KFSKEDHVLFIKLLYELVSIPKL EISMMQGFARLLINLLKKKELL SRADLELPWRPLYDMVERILYS KTEHLGLNWFNPNSVENILKTLV KSCRPYFPADATAEMLEEW R LMCPFDVTM QKAITYFEIFLPTS LPPELHHKGFKLWFD ELIGLWV SVQNLPQWEGQLVNL FARLAT DNIGYIDWDPYVPKIFTRILRSL NLPVGSSQVLVPR
9925	40293	A	9986	1	477	VREFPGRFRFGCCGALRPRYKR LVDNIFPEDP/GYVCIAMEALDQ LLMACHCQSINLFVESFLKMVA KLESEKSNLQILGTNSFVKFA NIEEDTPSYHRSYDFVSRFSEM CHSSHDDLEIKTKIRMSGIKSLQ GVVRKTVNDELQANIWDPQH

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9926	40294	A	9987	1	2371	AGGARLRPARGRPPRLPPRPG PCRPPVPAPT VNERRAPPRAG WERRSDAGLSRGARPAEMYGV CGCCGALRPRYKRLVDNIFPED PEDGLVKTNMEKLTFYALSAPE KLDRI GAYL SERLIRDVGRHRY GYVCIAMEALDQLLMACHCQS INLFVESFLKMVAKLLESEKPN LQILGTNSFVKFANIEEDTPSYH RSYDFFVSRFSEMCHSSHDDLEI KTKIRMSGIKGLQG VVRKTVN DELQANIWD PQHMDKIVPSLLF NLQHV EEAESRSPSPLQAPEKE KESPAELAERCLRELLGRAAFG NIKNAIKPVLHLDNHSLWEPK VFAIRCFKIIMYSIQPQHSHLVIQ QLLGHL DANSRSAATVRAGIVE VLSEAAVIAATGSVGPTVLEMF N\TLLRQLRLSIDYALTGSYDGA VSLG TKIIEHEERM FQEAVIKT VGSFASTLPTYQRSEVILFIMSK VPRPSLHQAVDTGRTGENRNR LTQIMLLKSLLQVSTGFQCNNM MSALPSNFLDRLLSTALMEDAE IRLFVLEILISFIDRHGNRHKFSTI STLSDISVLKLVKVDKCSRQDTV FMKKHSQQLYRHIYLSCKEETN VQKH YEALYGLLALISIELANE E VVVDLIRLVLA VQDVAQVNE ENLPVYNRCALYALGAAYLNLI SQLTTVPAFCQHIHEVIETRKKE APYMLPEDVFVERPRLSQNLDG
9927	40295	A	9988	1	662	IPGSTISWSPAAARGLSVCRCCR LHPASAMDLFGDLPEPERSPRP AAGKEAQKGPLLFDLPPASST DSG/SSLQALPGSGGPLLFDDL PASSGDSGLATSISQMVKTEG KGAKRKTSEEEKNGSEELVEK KVCKASSVIFGLKGYVAERKGE REEMQDAHVILNDITEECRPPSS LITRVSYFAVFDGHGGIRASKF AAQNLHQNLIRKFPKGDVISVE

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9928	40296	A	9989	3	1145	KEAQKGPLLFDLPPASSTDSA VAALGTTSPVTLWFLQTRRGS KIWRNSLDYQSKVGAEPWCHE RQQKADRFLGKRGRVPASSVIF GL\KGYVAERKGEREEMQDAH VILNDITEECRPSSLITRVSYFA VFDGHGGIRASKFAAQNLHQN LVRKFPKGDVISVEKTVKRCLL DTFKHTDEEFLKQASSQKPAW KDGSTATCVLAVDNILYIANLG DSRAILCRYNEESQKHAALSLS KEHNPTQYEERMRIQKAGGNV RDGRVLGVLEVSRSIGDGQYK RCGCHLCAPTSRRCLQTP\NDR FI/LVWPCDGLFKVFTPEEAVN FIL\SCLEDEKIQTRREGKSAADV RLRSSPATRLANKAVAAGARP DNVTVMVVRIGH
9929	40297	A	9990	2	419	
9930	40298	A	9991	2	1842	CLRLIAAAPPI/AIEPATTSSLALF LLLQRDQSSRTRGLPEEKKEEVT MDTSENRPENDVPEPPMPIADQ VSND DRPEGSVEDEEKKESSLP KSFKRKISVVSATKGV PAGNSD TEGGQPGRKRRWGASTATTQK KPSISITTESLKS LIPDIKPLAQE AVVDLHADDSRISEDETERNGD DGTHDKGLKICRTVTQVVP AE GQENGQREEEEEKEPEAEPPV PPQVSVEVALPPPAEHEVKKVT LGDTLTRRSISQKSGVSITIDD PVRTAQVPSPPRGKISNIVHISN LVRPFTLGQLKELLGRTGTLVE EAFWIDKIKSHCFVTYSTVEEA VATRTALHGVKWPQSNPKFLC ADYAEQDELDYHRGLLVDRPS ETKTEEQGI RPLHPPPPPVQPP QHPRAEQREQERAVREQWAER EREMERRERTRSEREWDRDKV REGPRSRSRSDRRRKERAKSK EKKSEKKEKAQEPPAKLLDDL FRKTKAAPCIYWLPLTDSQIVQ KEAERAERAKEREKRRKEQEE EEQKEREKEAERERNRQLEREK RREHSRERDRERERERERDRGD RDRDRERDRERGRERDRDTK RHSRSRSRSTPVRDRGGRR
9931	40299	A	9992	1400	2959	
9932	40300	C	9993	169	430	

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9933	40301	A	9994	2	199	STSR/KMTELEEVTLNGKPLQA LRVTDLKAALQRLAKSGQK SALVKRLKGVRSRRCWGVGGE RTR
9934	40302	A	9995	1	4033	MWRRKHPRTSGGTRGVLSGSR GVEYGSGRGHLGTFEGRWRKL PKMPEAVGTDPTSRKMAELEE VTLDGKPLQALRVTDLKAALQ RLAKSGQKSALVKRLKAL MLNLQKHSTPHAAFQPNQIG EEMSQNSFIKQYLEKQQLLRQ RLEREAREAAELEEASAEEDE MIHPEGVASLLPPDFQSSLERPE LELSRHSPRKSSSISEEKGDSDD EKPRKGERRSSRVQARAALSL EGSQPAEEEEEDQETP
9935	40303	A	9996	3	6305	ELEEVTLDGKPLQALRVTDLKA ALQRLAKSGQKSALVKRL KALMLNLQKHSAPHAAFQPN SQIGEEMSQNSFIKQYLEKQQ ELLSSRLEREAREAAELEGKSS SISEEKGDSDDDKPRKGERRSS RVQARAALAEAGSQPAEEEE DQETPSRNLVRADRNLKTEEE EEEEEEEEEDDEEEGDDEGQK SREAPILKEFKEEGEEIPRVKPE EMMDERPKTRSQEVEVLRRG RFRSQEEARKSHL
9936	40304	B	9997	99	332	
9937	40305	A	9998	3	236	YIFTILNTLQGVFILLFGCLMDR KIQEALRKRFCAQAPS/SHHLP GELLPSDPQLCIQEHVRRHSMA LLRGHGHSQKL
9938	40306	B	9999	1	3099	
9939	40307	A	10000	355	858	RASSAAWGSPSRKTSASSAFSSS CWSSS*QS*SYSSSSLSHGQGE RERQEGPEGRPAAVPHREQRG AEERLEHHPG*DAMLWCH*LH RLVPSAGGEHGSRLHGHGELPG LRAQRHHAFVENGLL*KGEDV VR*Q*ARAGHGGDVHPPHADP GHGLLDPLPAHPPDW

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9940	40308	A	10001	5	1478	GRALTSRRRACQGASEAAGSPA QVTTSTGHHQHRSHQHRSPPA QVTTSTGHHQHRSPAQATTSTG HHQHRPPPAQVTTSTGHHQHR SPAQATTSTGHHQHRSH\HTGH HQHRS/HTSTGHHQHRSPAQAT TSTGHHQHRPPPAQVTTSTGHH QH\GHQHRPPPA/HGHHQHSSPP A/HGHHQHRPPPA/HGHHQH\G HHQHSSPPA/HGHHQHR\HHQ\P GHHQHRSP/HSTAHQH\GHHQ HSSPPA/HGHHQH\GHQH\GHQH SSPYQH\GHQHHRPPPA/HGHH QHRSH\HTAHHQHRSHQH\GH Q\PGHHQHRSPAQATTSTGHTS TGHHQHRP/HTSTGHH\HTGHH QHRSHQHRSPPAQATTSTAH QHSS/HTSTGHHQHRSP/HSTGH HQHSSPPA/HGHHQHSSPPAQA TTSTGHHQHRESPAVAAAADPS ALSAARRGSPGAAAPQSRGTR GGGAPAKWWGSALGLGWAGR ARARLGRPLRPILGAMPAPRT PRERREHGEVE
9941	40309	A	10002	5	341	PPRRRGQKRRQK/REEGERERG ERKRPRDRKEERKG/RRTKRQG GTETRESRPNGDGPQAKRKKQ TAGQREEREQQRSSRQRGAA ERERGRETTHTCLLVPCWWEP NGRLCL
9942	40310	A	10003	1	582	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLMDEEALGNCGGSS GSQTCEKAVCIHNLPFLTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISEAGFP APVSGYEHNSRPGVMPSGTS HWKQRSQKVEDNRTEMVKGIQ GDTVKHQQHLPRINGN*LAYM TAKSRTWLPVQQDPGPQTI
9943	40311	A	10004	1	332	MEYYAAIKNDEFMSFVGTWM KLETHLSKLSQGQKTKHHIFSLI EAQAQVSPPPPYPAPQELTQPL LQQPRAPEAPAQ/PPGSLLTAT VRLSASPGPLIFDQLLPRCGF

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9944	40312	A	10005	1	1108	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLIMDEEALGNCGGSS GSQTCEKAVCIHNLFLTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISESAGFP APVSGYEHNSPSLSTTNLSGSPSR RRQPPVSPLTSPGPEAHQGFSR QLSSTSPLAPYPTSQMVSSDRS QLSFLPTEAQAQVSPPPYPAPQ ELTQPLLQQPRAPEAPAQPPQA ASSLPQSDFQLPAQGSSLTNFF PDVGFDQQSMRPGPCLSSGTAS GATGSRELQDSFHLRPSYSNC GSLPNTILPEDSSTSLFKDLNSA LAGLPEVSLDVDTPFPLEEELQI EPLSLDGRHMLSDSSMGLLDP SVEETFRADRL
9945	40313	A	10006	1	691	MRERARPPRGCLAPPLPPG/E/S GADGQPAPRGRGTAGG/ELAA AGCGARAAMHRGAVPSAEPVP ASP/DGRWQWAGEGRPCNAAG GSRT/GAGCGWPAPAGWGPAP SSAASCPASGGATHRGASAAPG GGGGGRAP/GPDALEQRRAGAP PNAPGTPGSPEESSLRMRRESA AGAPAVGMAAATSLGQALGPR VPRSPYRTAVVLSSRSAFGYFSL ITLARYTLGCLSHSDITLFEC
9946	40314	A	10007	1	1065	MADKRAGTPEAAARPPGLAR EGDARTVPAARAREAGGRGSL HPAAGPGTAFPSGRGEAATA TTPSLENGRVRDEAPETCGAEG LGTRAGASEKAEDANKEEGAIF KKEPAEEVEKQQEGEEKQEVA AEAQEGPR/PPEPWCPN/C/MDP LEAIQWEAEAVSAQADRAYLP LERRFGRMHRLYLARRSFIIQNI PGFWVTAFLNHPQLSAMISPRD EDMLCYLMNLEVRELHRSRTG CKFKFRFWSNPYFQNKVIVKEY ECRASGRVVSIAIRIRWHWGQE PPALVHRNRDTRVSFFSWFSQH SLPEADRVAQIIKDDLWPNPLQ YYLLGDRPCRARGGLARWPTE TPSRPYGFQSG
9947	40315	A	10008	2	433	
9948	40316	A	10009	125	289	TRKSGCLKIRFHVFLFLYRNPG MDVADAYVTFVRHSQDVLRD KVNE\EMY\ERLF
9949	40317	A	10010	1	774	
9950	40318	A	10011	1	1749	

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9951	40319	A	10012	1	1175	MFASCYMRNIPKRVIIEFGTCLW RTCKNCLSSLEFKMPFPPHPRSV TYNLKQERCRLSLDASLSCMLS IEDSQIPNTRLECKGLSRCTSV ASTCPLVTFSCFLFSPKMEQYS KDDSEKTLKGWFSFGQVFVLD EYCARNGVRGCHRHLCYLRDL LERAENGAMIDPTLLHYSFAFC ASHVHGNSQQMHVYLSGLPPN TDPEGSKTPSPPEPEAKKDTKK ESKKRKDSKTQANQELKRSLTS NLP/ICEPTQ/W*TFPKYQIYQLT SL*ASHKCLLFRHRHGWLLY/ID ADNGSGTSEDLFWKLDALQTFI RDLHWPEEEFGKHLEQRLKLM ASDMIESCVRTRVIAFEVKLQK TSSIQQIFRVPQFNMAPCFNVM GLMAKGSIQPKLACSMEMGQE
9952	40320	A	10013	1	3951	MLDPSSSEEESEIVEEESGKEV LGSAPSGARLSPSRTSEGSAGSA GLGGGGAGAGAGVGAGGGGG SGASSGGGAGGLQPSSRAGGG RPSSPSPSVVSEKEKEELERLQK EEEERKKRLQLYVFMRCIAYP FNAKQPTDMARRQQKISKQQL QTVKDRFQAFNLGETQIMADE AFMNAVQSYEYVFLKSDRVAR MVQSGGCSANDSREVFKKHIE KRVRSLEIDGLSKETVLSSWM AKFDAIYRGEEDPRKQQ
9953	40321	A	10014	1	457	VAAVAATALKGGGARNARVL RGIFAGATA\NKAS\HNRTRALQ N/HTASPEGKEEPEPLIPGTGKY IPQKRGAKNPHECNGNLPWAIG FPCGILLFDPSPKR/RKLDKDRV\ KQMKARQNMVSNVTG\EYES\Q RFRASSQS\APSP\DVGSGVSGV QT
9954	40322	A	10015	464	863	TPAAVESSPSIPLAPRLLYTG*PL QP/GPRGQGCVPRIVPCCPKP/V CAPRPPWPRRSQRLRSAGLSPL CAAAAPPVPAGSHGTPGRVWA PLSNSACCTCCRHPS*LHPGTLD PGRWQAR*GPALPRGPLPGSPP
9955	40323	A	10016	1	300	PKILVGASKVVLL\SAHKLFIG DTLSRQAK\AVDVASRVTHYSN LL\CDFL\QGIVATTKAAALQYP IAFPGPKDMVERVKELGHS\TQ QFRRVLGQLAAA

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9956	40324	A	10017	3	291	ARI/VFAIISFYFMPCCPLTA/SSF YLLSGLLDAFDGHALALLIKFC VRGSESHKMIDLSGNP/VLRJYY TS/RVGSVGLFR/MGLWVTAPIA LLKSLISVIT
9957	40325	A	10018	1	344	VLIRARLSDNPAVRGSESHKMI DLFCYPVLRJYYTSRPAFTLCA GNELFYCLLYLFHFSEGPLVGS VGLFRMGLWVTAPIALLKSLIS VIHLITAARNMA\ALGRQQDRA KKK
9958	40326	A	10019	1	469	MVRSCFVDDRRKRCNFRQAS EVLNEYFYSHVSNPYHSEEAKE ELAKKCGITVSQVSNRFGNKKI RYKKNIGEFQEEANIYAVKTAV SVTQGGHSSTS\SPTPPSCAGCG GSFNISGSGDMFLGMPGLNGDS YSASQALESGDASPAQSEMPK MGT
9959	40327	A	10020	232	1728	PGGGRGGAGRGPQGGPPAMDE RLLGPPPPGGGRGGLGLVSGEP GGPGEPPGGGDPGGSGGVPG GRGKQDIGDILQQIMTITDQSLD EAQGQKTPPLNCPARKKPVLF GRGEIKEKTGLSIRSSQEEEPVD PQLMRLDNMLLAEGVAGPEKG GGSAAAAAAAAASGGGVSPDN SIEHSDYRSKLAQIRHIYHSELE KYEQACNEFTTHVMNLLREQS RTRPVAPKEMERMVSIHRKFS AIQMQLKQSTCEAMMLRSR LDARRKRRNFSRQATEVLNEYF YSHLSNPYPSEEAKEELAKKCG ITVSQVSNRFGNKKIRYKKNIG KFQEEANIYAVKTAVSVTQGG HSSTSSPTPSSAGSGGSFNISGS GDMFLGMPG\NGDSYSASQ/V WESLRHSMGARGVIGG*TFGG RARCYSPIEMRANGSWQEAV TPSSVTSPTEGPGSVHSDTSNLI LPLRVTGVGALTRLEEDAGFQ RTNPNTGEAQDREGPMGSSPP
9960	40328	A	10021	337	830	IPRLPGSIQLSFVGAFGQTSKSLF FLCVFILLLFQFFLCVYVPMCT E/RRINIPIGPCGGMCLSVKGRC EPVLKEFGFAWPESLNCSKFPP QNDHNHMCMEGPGDEEVPLPH KTPIQPGEECHSVGTNSDQYIW VKRSLNCVLKC/GYDACLYSRS AQEVT\DIWMA

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9961	40329	A	10022	1	1561	MAWRGAGPSVPGAPGGVGLSL GLLLQLLLLLLGPARGFGDEEER RCDPIRISMCQNLYNVTKMPN LVGHELQTDALQLTFTPLIQ YGCSSQLQFFLCSGYVPMGTEK INIPGPCGGMCLSVKRRCEP LKAIEFGFA\WPESLNCCK/YPHP QND\HNPHVPWKPGDEEVPLP HKTPIQPGEECHSVGTNSDQYI WVKRSLNCVLKCGYDAGLYSR SAKEFTDIWMAVWASLCFISTA FTVLTFLLIDSCRFSYPERPIIFLS MCYNIYSIAYIVRLTVGRERISC DFEEAAEPVLIQEGKNTGCAII FLLMYFFGMASSIWWVILTLT WFLAAGLKWGHEAIEMHSSYF HIAAWAIPPVKTIVILIMRLVDA DELTGLCYVGNQNLDAITGFV VAPLFTYLVIGTLFIAAGLVALF KIRSNLQKDGTKTDKLERLMV KIGVFSVLYTVPATCVIACYFY EISNWALFRYSADDSNMAVEM LKIFMSLLVGITSGMWIWSAKT LHTWQKCSNRLVNYT
9962	40330	A	10023	496	664	FYKAVPSIHQLDVPQTHQP*ST GLVQKVYSRSKHVSL*PKYYY VQLVPKLDHLIFY
9963	40331	A	10024	1	954	
9964	40332	A	10025	127	481	GRTREATWRVYSVAVGVSRSQ IIRIAREFADNADKTHGRSMIIV GAGLNHWYHLDNMNYRGLINM LIFCGCVGQSGG/GWAHYVGQ EKLRPQTGWQPGVCLDWQRPA RHMNSTSYFLLVP
9965	40333	B	10026	161	234	
9966	40334	A	10027	3	199	DDFLDLAESPNASDTESSDEIPL KAGPGTLIMATGVQDFNRTEFD RLNAIKGHLE\ALLEKHFFT
9967	40335	A	10028	37	455	LRTHLLPRLSQSSPVSSLPRALL RPPGQLELWAVPAGPGLLAA DASQNLQHMELASQSRGRV DMSDGH LAVLSPIEEELRKLRE ETNAEMLRQELDRERQRRMEL EQKVQEV LKARTEEQMAQQPP KGQAQASNGA

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9968	40336	A	10029	1	1721	DKIRFRGHRDDFLDLAESPNA SDTECSDEIPLKVPRTSPRDSEE LRDPAGPGTLIMATGVQDFNRT EFDRLNEIKGHLEIALLEKHFLQ EELRKLREETNAEMLRQELDRE RQRRMELEQKVQEVVKARTEE QMAQQPPKGQAQASNGAERRS QGLSSRLQKWFYERFGEYVED FRFQPEENTVETEEPLSARRLTE NMRRLKRGAKPVTNFVKNLSA LSDWYSVYTSIAIAFTVYMNNAV WHGWAIPLFLFLAILRLSLNYLI ARGWRIQWSIVPEVSEPVEPPK EDLTVSEKFQLVLDVAQKAQN LFGKMADILEKIKNLFMWVQP EITQKLYVALWAAFLASCFFPY RLVGLAVGLYAGIKFFLIDFIK RCPLRLAKYDTPYIWRSLPTDP QLKERSSAAVSRLQTSSRSY VPSAPAGLGKEEDAGRFBSTKK GNFHEIFNL TENERPLAVCENG WRCCLINRDRKMPTDYIRNGV LYVTENYLCFESSKSGSSKRNK VIKLVDITDIQKYKVLVLPGSG MGIAVSTPSTQKPLVFGAMVH RDEAFETILSQYIKITSAASGG
9969	40337	A	10030	18	573	
9970	40338	C	10031	71	205	
9971	40339	C	10032	190	243	
9972	40340	A	10033	18	283	
9973	40341	A	10034	1	190	
9974	40342	A	10035	1	135	
9975	40343	C	10036	90	137	
9976	40344	B	10037	272	560	
9977	40345	A	10038	3	422	
9978	40346	A	10039	205	1090	
9979	40347	A	10040	1	2142	

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9980	40348	A	10041	15	1524	FPGRRFRAEGERTECAEPPRDEP PADGALKRAEELKTQANDYFK AKDYENAIKFYSQAIELNPSNAI YYGNRSLVYLRTECYGYSL*D ATRAIELDKKYIMGYRRAS NMALGKFRAALRDYETVVKV KPHDKDAKMKYQECNKIVKP KAFERAIAGDEHKRSVVDSLDI ESMTIEDEYS*PKLEDGKVTISF MKELMQWYKDQKKLHRKCAY QILVQVKEVLSKLSTLVETTLK ETEKITVCGDTHGQFYDLLNIFE LNGLPSETNPYIFNGDFVDRGSF SVEVILTLFGFKLLYPDHFHLLR GNHETDNMNQIYGFEDEVKA KYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEDGVTLD DIRKIERNRQPPDSGPMC\DLLW SDPQPQNGRSISKRGVTCQFGP DVTKAFLEENLDYIIRSHEVK AEGYEV AHGGRCVTVFSAPNY CDQMGNKAS\YIHLQG\SDLRP QFHQFTAVPHPNVK\PMAYAN
9981	40349	A	10042	94	188	VIEHLVSQDGLDFL/NLVICPPR PPKVLGLQA
9982	40350	A	10043	419	495	EPTNENSPIALSR*VNSQKISMK AV
9983	40351	A	10044	1	265	EMESRSIARMECSGSISAHCKL RLPGSHHSPASVSRVAGTTGTC HHARLIFLYF/LLETGFHCVSHD GLHLL/NLVICPPRPPKVLGLQA
9984	40352	A	10045	3	706	ADAWAWPHC/CTVLL*CLGFA GVLFGWPSLVFVFKNEDYFKD LCGPDAGPIGNATGQADCKAQ DERFSLIFTLGSFMNFMFTFPTG YIFDRFKTTVARLIAIFFYTTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIHKLLYEK GISLR/VLLHLHLCLQYLACSTH FPPDAPGAHPIPTAPQLQLWPV PWEWHHKGREGNS

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9985	40353	A	10046	1	1413	MKRGNRSRRRRRLSENNGVF HIESFAQHPKDEKSRKLLGPIEH WTFVVEKGKGKPEETGTVSMV LEDGEVEADIKQGSVVGCCNV PPDAARERAEKAYMDGEQPTLI LLLWDLKKQIPVHKGTHSVGR HQTELLPNNGGGVVRFFYTTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIKLLYEK GISLRASFIFISVCSTWHVARTF LLMPRGHIPYPLPNYSYGLCP GNGTTKEEKETA EHENRELQSK EFLSAKEVSTYTNAFAFTQFGV LCAPWNGLLMDRLKQKYQKE ARKTGSSTLAVALCSTVPSLAL TSLLCLGFALCASVPILPLQYLT FILQVISRSFLYGSNGRFLTALF PSEHFGKLFGLVMALSA\VVSL LQFPIFTLIKGS LQNDPFYVNV MFMLAILLTFLPPLSGISGMPYL
9986	40354	B	10047	316	395	
9987	40355	A	10048	1	1614	RMQQQAVMHYMQQQQQQQQ QQLGGPPTPAINTPVHFQSPPPV PGEVLKVG PVLACPPPCPH*SQ PPLEPLPYLSETYGNKFAAHISP AQALRNPHQPPPQGC ELDTC PPPLATVLP/ISPMAM LHIGSNPE REVSEELASGHAACRARA HCC ASETMPNTVLLARVGVWVCKGS REGGTHCGSEPGESGVTSSSCP ADLTQKRELGTASLYPCAF EY PTPPSFSPSLPAAPLPASLFLVLT WAG*KANDL*/VRFLRGRVMG LGGQQLTRLSALLQKSRELE N HSRREMTNKQLWLRIQVWS* TWTSLVTLTLNLAPGPKGQYFR MFCFGNKQSSASLSNTYQLEVL FCETLILAPTLLAPSSLM AHLEL ALKAIVTLKVPHVTSVQWAWP MQAHSTSTLTSLAQQVVKQEL PSEEGPGEALMLGAEVPDPEPL PALPPQA PLPTQPPSPFHHL D FSHLSFGGREDEGPPGYPEPLA PGHGSPFPSLSKKDL DLM LDD SLLPLASDPLLSTMSPEASKASS RRSSFSMEEGDVL

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9988	40356	A	10049	1	1651	GGVTAGARAPARGSVTAEEAA RAGRGSGRGADGGREGRTGRA SLVARGSRPGAGGGHSLRAR HPNLRQVAGA/GGARAADRLT FRAREPAPAATMASRIGLRMQL MREQAQQEEQRERMQQQAVM HYMQQQQQQQQQQLGGPPTP AINTPVHFSPPVPGEVLKVQS YLENPTSYHLQQSQHQKVREY LSETYGNKFAAAHISPAQVALR NPHQPPPQGCELDTCCPPPLAT VLPISPMAMLHIGSNPERELDD VIDNIMRL\TMSLGYINPEMQM PNTVLLARLPLSSSHLNVYSSDP QVTASLVGVTSSSCPADLTQKR ELTDAESRALAKERQKKDNHN LIERRRRFNINDRIKELGMLIPK ANDLDVRWNKGTILKASVDYI RRMQKDLQKSRELENHSRRL MTNKQLWLRIQELEMQARVHG LPTTSPSGMNMAELAQQVVVKQ ELPSEEGPGEALMLGA\EGPDP EPLPALHRQAPLPLPTQAPSPFH S/HWDFSHSLSFGGVRVDDWSP GLPRTPGAGAWLPIQPVQEGS GPHAPGRLTATAGL
9989	40357	A	10050	2	76	TPLAPPPKPVRRLKSRR*IKAR S
9990	40358	A	10051	3	206	
9991	40359	A	10052	1	492	

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9992	40360	A	10053	2	2395	KQTELRRSGSRDVTGALLVAA AVASEAVGSLRVAEGGPNTLLL QVLR\SW\PWCNKATQTMEERK VKRRSPKSFSAHCTQVVNVQK KMSIPVASKS\TGFSNPASQVNFT SRPKVKKEVMK\EKTKPQGLEE GQRHSSQLPIQHSFLT\DVSRCS RKMERGLLSL\NDFHSWKTFK HFGN\EC\S\EQMEHVSGELQEK LARLNLELYGELEELPEDKRKT ASDS\NLDRLLSDCREMIPAFRT FLKRHDKTIVTKMLSLPELLLY PSRRFEEYLNLLYAVRLHTPAE HVDRGDLTTAIDQIKKYKGYID QTLSEVNRYLIRVQDVAQLHCC DEEISFSLSVACRSVDSASPESL PEMQNSQATLALLNQNLFHNKI TRYEH\HDLSLFLFNDALLVSS RGTSHTPFERTSKTTYQFIASVA LHRLLIENIPDSKYVKNAFILQG PKYKWICATEIEDDKFLWLSVL RNAIKSSMEKACGLVFTGQFMF DTMGMTN\LN\NQDTAQAALADG LMELSKEDSKCGKKIKDVEGN VIPTKCDPKTTFSLFMKERNVV EDNSWDTKSRLSKNDLNFEALI NLERILQKDSA\EKRARVVRELL QSERKYVQILEIVRDVYVAPLK AALSSNRAILSAANI\IIFCDILQ ILSLNRQFLDNLRDRLQEWGPA HCVGEIVTKFGSQLNTYTNNFN NYPVILKTIEKQWETFSSSSSS
9993	40361	A	10054	2	296	
9994	40362	A	10055	2	369	
9995	40363	B	10056	82	2483	
9996	40364	A	10057	2	3343	YDVVLDAIDTMQRVAWHIND MKRKHEHAVRLQEIQSLLTNW KGPDLTSYGELVLEGTFRIQRA KNERTLFLFDKLLLITKKRDDT FTYKAHILCGNLMLVEVIPKEP LSFSVFHYKNPKLQHTVQAKSQ QDKRLWVLHLKRLILENHA AKI PAKAKQAILEMDAIHHPGFCYS PEGGTKALFGSKEGSAPYRLRR KSEPSSRSHKVLKTSETAQDIQ KVSREEGSPQLSSARPSPAQRNS QPSSSTMISVLRAGG

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9997	40365	A	10058	32	483	LKGHADA VLAAGTEAVKCHLL LGRHLLRLMASSGIHHKIVN*R QYAKFSHG*IQKF**WQHRQQF RGKETEMASAVDLPVTLTETEA NFPPEYEKFWKTVENNPQDFTG WVYLLQYVEQENHLMAARKA FDRFFIHYPYCYGYWKKYADL
9998	40366	A	10059	1	1090	MRQKRKEEKELFHNKDCEKKE KNSWERMRTGTGTEKMASESET PTGAISQYKERMPVTHSPEIM DLSELRPFSKPEIALTEALRLLA DED/WDKQLHALEQLLASCYS GTRHTTSSFHCGHQGMWWHPE AWRC/LATAEPQREP GKSTISSH SSLWN*Q/LHSHKLQSVPLKV KNLRSGVSRAAVVCLSDLFTYL KKSMDQELDTTVKVLHKGAGE SNTFIREDVDKALRAMVNNVT PARAVVSLINGGQSHLHIAVRR CTAQLHSDVLEFMEPERILSAA KDMAERILPAAAKFAQDSSQET RYYGRKMLFFMMCHPNFEKM LEKYVPSKDLPIKDSVRNLQQ KVCCKSLFYKQLYKQSLFLHP
9999	40367	A	10060	36	203	
10000	40368	A	10061	1	798	MKFQYKEDHPFEYRKKEGEKI RKKYPDRVPVIVEKAPKAR/RA *SGQEEVPSAL*PYCCLP/DGAG LGTCS/HAMPEPPTHSMGTCAA RASPTSTTPCSTAPSPIDREEQT TQGLRNASARRGTGRQLHLQ/S PVWDPLGEASWAPESSGNVESI SSSGIVNIPISTLCLAQGFSRFVN APIDTL YLAALVGPWRTFMSSS GIVNTPIGTLYLAQGMVHYHKS PFPTCLVQMSKIESLPKEKGAQ GVAAGLPSSLAPTCPPDPSPMK LHNN
10001	40369	A	10062	164	605	ALLKQHLRTVHRSAPPIRGHCC VSSSWT*G/AGKLSLEHTEEPSD VPSHLLYRWSISSAITEVFQALA SS\IPPRSQ*MSTPRR\NESTRHSP GPSIEEVKECMQDDN*YLQGTS YAPAGSQSYSAKLCFQVLKRN TCPPEKPNPASER

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10002	40370	A	10063	3	2480	RPITGAEIVAIINSLPTKKSPGLD GFTAEFYQRYKEELVPFLCLKF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRT KDKNHMIIISIDAEKAFDKIQQ/R LHAKNS/RIN*VLM/ETYFKIIRA IYDKPIANIILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSK VSGYKINVQKSQAFLYTN NRQTESQIMSELPFTIASKRIKY LGIQLTRDVKDLFKENYKPLLK EIKEDTNKWKNIPCSWVGRINI VKMAILPKVIYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRAHIA KSILSQKNKAGGITLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEITPHTYNCLIFDKPEK NKKWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQNI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSSDKGLISRIY NELNQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKHKMKCS SSLAIEMQIKTTMRYHLTPVR MAIIKKSGNNRCWRGCGEIGTL LHCWWDCCLVQPLWKS V WRF
10003	40371	A	10064	317	582	STVCCFLLRFIGGGFRHIPLSVD LWIHYIKILKETLDPGDPETNNT IRGYVEH*Y*NVFYDINNYSDV DNRAHES*AGSLTSIPLKK
10004	40372	A	10065	41	434	GDLQPTAALWEPLSGLAKAGA RSLSLQGGVGGEARARTRAAR GACGPAAAPGGHGLGGHALGA AGR/RLLALGRLGTCSLPCLSLP PSPWAPVPPEPPR*VPPHAPGRP VPSATQRLRSAGAQRRTGRQL
10005	40373	A	10066	67	459	LRDCKYTHRHCVSSSRFINTPIN TLCLAQGL*VHQSTLCI*LLWV GGLGGNFCVQYSVSN*SDGDV ENLCI*LRDCKCTNQHPVKTG FGSTNQQDVGWGQIKRIKAGLP EPASGNSLGSPTLWELCSLQ

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10006	40374	A	10067	2481	2882	IPQGNRYVIARNAKTQRGGNLT LTKPS/GIGRRGENSSISSWQRQ QKGGKETGSQRKRQRGRDKKL ERKRDRHRSQREGKKERKRQR RSQRERWK**RKNSVPIPLKAR VNFSLPTQGNLLDLNPYLPLK QLKK
10007	40375	B	10068	52	5199	
10008	40376	A	10069	1510	2454	
10009	40377	B	10070	97	3414	
10010	40378	A	10071	164	620	PPTGCGTGPIGCSGPGTGVPVP VAPFPQEGARTQPGSAGAIPG ARGLRRAETLVALGAVGPGLP TPPPPPAPQSQAPGGPEAQPF GSRVCVLASCAHRPRPAPSAP PAPPPESTVRPAPTRPGESS YSSISHAFTATNFPFGTA
10011	40379	A	10072	1	513	MATLAGEGRPAGWVPWISLLA VGVLIIWKLWPAPPIGGELQFA FVCFLGNVYEA FEHWKRLN LLCRSEAAMKK/HATRLWINLI SILHHQLGEIPADFFVDIVSQHN FLTSTLQVFFSSACSIATDLR KKA EK FQAHLTKKFRWDFAE PEDCAPVVEELPEGIEMG
10012	40380	A	10073	1	1642	MDYIRDTLTTAAPSPPRRLGPP PGEQPPSGSGHVRPPGARPPHR GGGRGGGGDPAAPPARGGGG GGKARPPGGGAAPCEPGCQCR APMVSVSSEHPLYNRVKTGQI ANCALPCHNPFFSQDERAFTVF WIGLWSVLCFVSTFATVSTFLID MERFKYPERPIIFLSACYLFVSV GYLVRLVAGHEKVACSGGAPG AGGAGGAGGAAAGAGAAGAG AGGPGRGEYEELGAVEQHVR YETTPALCTVVFLLVYFFGMA SSIWWVILSLTWFLAAGMKWG NEA IAGYSQYFHAAWLVPV KSI AVLALSSVDGDPVAGICYV GNQSLDNLRGFVLAPLVIYLFIG TMFLLAGFVSLFRIRSVIKQD GPTKTHKLEKLMIRLGLFTVLY TVPAVVVACL FYE QHNRPRW EATHNCPCLRDLPDQARRPD YAVFMLKYFMCLVVGITSGVW VWSGKTLESWRS LCTRCCWAS KGA AVGGGAGATAAGGGGGP GGGGGGPGGGGGPGGGGSL YSDVSTGLTWRSGTASSVSYP

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10013	40381	A	10074	3	475	HSSLNSVDKARALEADNGELE VNIRDWYQKQGPASRDYSHY YTTIQDLRDKILGATIENSRLV QIDNARLAADDFRTKFETEHAL RMSVEADINGLRRVLDELTLAR TDLEMHIEGLKEELAYLKKNHE EEISTLRGQVGGQVTV*VDSAP GTDL
10014	40382	A	10075	39	1323	NGMWSNWNPLIPQRWEEKFQS PSRHRGSSSRGVSLSSISGGYSGL LSGSNGLLAGNEKLTMHNLNN CLASYLDKVALEAANSKLEF GLSVWVLDEVTARTDLEAQI KGLKEELAYLKKKHEEEINALR GQVGDQVHILSDRQSQYEIMA KQNWKDAEAWFTSWTEELNQ EVTGHIEQLQISRSEVTDLQCTL QGLEIELHSQSVKAPLEGTLA ETEACFGAQLVQIQALISSIEAQ LGDVRADGEWQNQEYQRLLE QEIATYRSLLEGQEDHYNLST SKVQIPECTVSNVPVASVCLQT LEPHSLASNPGSSTYSVTFGQYI NLSVSPFLLLEATIAGAKKAAT GNNSTQFSPPAERQLCIFTCPRT IPLTTASHAGSYGPKLVKYTSL RPLPMAAPTESNPALPSSRATA HRLLPAPGHFPSGL
10015	40383	B	10076	133	180	

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10016	40384	A	10077	1	2182	MSVDKAELCGSLLTWLQTFHV PSPCASPDLLSSGLAVAYVLNQ IDPSWFNEAWLQGISDPGPNW KLKVSNLKMLVRLSLVEYSQDV LAHPVSEEHLPDVS LIGEFSDPA ELGKLLQLVLGCAISCEKKQDH IQRIMTLEESVQHVVMEAIQEL MTKDTAP\DSLSPETYGNFDSQS RRYYFLSEEAEEGDELQQRCLD LERQLMMLLSEEKQSLAQENAGL RERMGRPEGETPGLTAKKLLL LQSQLEQLQEENFRLESGREDE RLRCAELEREVAEL\QHRNQAL TSLAQEAQALKDEMDELQRSS ERAGQLEATLTSCRRRLGELRE LRRQVRQLEERNAGHAERTRQ LEDELRRAGSLRAQLEAQRQ VQELLGQRQEEAMKAEKWLFE CRNLEEKYESVTKEKERLLAER DSLREANEELRCAQLQPRGLTQ ADPSLDPTSTPVDNLAAEILPAE LRETLRLS/LLENKRLCRQEAA DRERQE/EKLQRHLEDANRRAR HG\LETQ\HRLNQQAAYSELRA QVEDLQKALQEQGGKTEDAISI LLKRKLEEHLQKLHEADLELQR KREYIEELEPPTDSSTA\RRIEEL QHNLQKKDADLRAMEERYRR YVDKARMVMQTMPEKQRPAA GAPPELHSLRTQLRERDVRIH LEMDFEKSRSQREQEELLISA WYNMGMALQ\QRAGE\EPAPA
10017	40385	A	10078	1	687	
10018	40386	A	10079	1	1104	
10019	40387	A	10080	1	677	MAAAGGGGGGAAAAGRAYSF KVVLLGEGCVGKTSVLRYCE NKFNDKHITTLQASFLTCKLNI GGKRVNLAIWDTAGQERFHAL GPIYYRDSNGAILVYDITDEDSF QKVKNWVKELRKMGLM\ETCL CIVGNKIDLEKERHVS IQEAESY AESVGAKHYHTSAKQNKGIEE LFLDLCKRMIETAQVDERAKG NGSSQPGTARRGVQIIDDEPQA QTSGGGCCSSG
10020	40388	A	10081	1	1467	
10021	40389	A	10082	2	244	
10022	40390	A	10083	1	257	
10023	40391	A	10084	1	558	
10024	40392	B	10085	41	618	
10025	40393	A	10086	1	591	

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10026	40394	A	10087	128	851	KMEKEKGNDGIPDQENSLDFS EHFNQLELLETHGHLIPTGTQSL WVGNSDEDEEQDDKNEEWYR LQEKKMEKDPSRLLLWAAEKN RLTTVRRLSEKATHVNTARDE DEYTPLHRAAYSGLDIVQELI AQGADVHAVTVDGWTPHSA CKWNNTRVASFLLQHDADINA QTKGLLTPHLAAGNRDSKDT LELLLMNRYVKPGLKNNLEET AFDIARRTSIYHYLFEIVEGCTN
10027	40395	A	10088	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEEDP NCHEQHLSNTATHLGTDQEAVI DGRRKPEESRTTSHICRCRS
10028	40396	A	10089	2	461	
10029	40397	A	10090	2	749	
10030	40398	B	10091	1	1077	
10031	40399	A	10092	1	1114	MPQNSLEECALELGKKS LQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVFQTPYTAAQKVE LVAVIEVLTA FDM PVSMISDST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVRCFAVMGIP ASRKTDNVPGYTIQTLATFFSM WNIKHITGIPYNSQGQAI VGRIN LSLKQRLQKQKEGNREYRTPQ MQLNLALLALIFLSLSKGQMLS AAEQHLQKPPAKTEAEQLIWW RDTKTRSWEIGKIITCGRGYAC VSPGQNQQPIWTPSRHLKPYHE PDAK\KRFREDPEDPPSCSHVKT DAEEDPNCHEQHPSNTAIHLRS DQEAVTDGRRKPEESGTTSHNE
10032	40400	A	10093	239	783	RRAPGTAPDAGPELRS LHNLL GPACIFLRKGF AENRQPVQLRE AFREFDKDKDGYINCRDLGNC MRTMGYMPTEMELIELSQQIN MNLGGHVDFDDFVELMGPKLL AETADMIGVKELRDAFREFDT NGDGEISTSELREAMRKLLGHQ VGHRDIEEIIRDVDLNGDGRVD FEAPFPGSSN
10033	40401	A	10094	1	304	
10034	40402	A	10095	3	154	
10035	40403	B	10096	126	251	
10036	40404	B	10097	122	2916	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10037	40405	A	10098	3	2433	LAELSSLSVLRLSHNSISHIAEG AFKGLRSLRVLDLDHNEISGTIE DTSGAFSGLDLSKLTLCFNKIK SVAKRAFSGLEGLEHLNLGGN AIRSVQFADFVKMKNLKEHIS SDSFLCDCQLKWLPWLIGRML QAFVTATCAHPESLKGQSIFSVP PESFVCDDFLKPQIITQPETTMA MVGKDIRFTCSAASSSSSPMTF AWKKDNEVLTNADMFVHV HAQDGEVMEYTTILHLRQVTF GHEGRYQCVTNHFSTYSHKA RLTVNVLPSTKTPHDITIRTTT MARLECAATGHPNPQIAWQKD GGTDFPAARERRMHVMPDDD VFFITDVKIDDAGVYSCTAONS AGSISANATLTVLETPSLVPLE DRVVSGETVALQCKATGNPP PRITWFKGDRPLSLTERHHLTP DNQLLVVQNVVAEDAGRYTCE MSNTLGTERRAHSQSLVLPAA CRKDGTGIFTIAVSSIVLTS LVWVCIYQTRKKSEEYSVTNT DETVPDPVPSYLSSQGTLSDR QETVVRTEGGPQANGHIESNGK ASVTVKQSSAVTVSLGAGGGL QVFTGQVPGIRWGKLGEVEGG VCPRDASHFEPDTHSVACRQP KLCAGSAYHKEPWKAMEKAE GTPGPHKMEHGGRVVCSDCNT EVDCYSRGQAFHPQPVSRSQAQ PSAPNGPEPGSDQEHSPHHQC
10038	40406	A	10099	1	164	
10039	40407	A	10100	368	566	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10040	40408	A	10101	3	1160	RDQRGYRDDRSPAREPGDVSA RTRSGGGGGRSATTAMPPVPN GNLHQHDPQDLRHNGNVVVA GRPSCSRGPRRAIQKPQAGGR RSGRGPAAGGLCLQPPDGGTC VPEEPPVPPMDWEALEKHLA LQFREQEVNRNQIQARTNSTSA QKNERESIRQKLALGSFFDDGP GIYTSCSKSGKPSLSSRLQSGM NLQICFVNDGASDKDSDADDS KTETSLDTPLSPMSKQSSSYSID RDTT\EEEESESLGWTWDFLYKG KRNLQAEAKMALAMAKPMAK MQVEVEKQNRKKSPVADLLPH MPHISECLMKRSLKPTDLRDLI MGQLQVIVNDFISQIKSLNEEW VQLLL\QDELHTEQDAMLVDIE DLTRHAESQQKHMAEKMPAK
10041	40409	A	10102	1	506	RGPRTPEQDPCCPRAAAGARPS GPG/QDLPRRLRPGSPGAPGAG GGAGTAAGRKGPLPEEAAAD GAWRLGEGWAAASEEPAPPGP HTSQRGASPPQPGWARAAGLS NQPTKDRIFGGSHKAAPQASAD SPTSLQCGAAGHCPKASRRALG DNPETEATSSLSPTEWLQ
10042	40410	A	10103	1	429	MGSRLNWMEVIPEQCTYLHVL KCMFFWNRQHRGGIQEKAALK QRTPRIFHEKNTPCYLLVQE*H RSNAFGEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEE EEETLFSNM
10043	40411	A	10104	4	122	
10044	40412	A	10105	53	619	ILVWSIVPEGKILWGTKQQRD SRTQRLKKSPWRAKQSVWEE/ ERKKKNKEEKEEKEKEKEKK EKEKEKRRKKRKKKKKKKK KKKKKKKKKKKKKEEEEE EDEEEEEEEKKKKEKEEKVK EKKKEEK/QEEKEEEN/EEEE EEEEKEKSSSKYSLDSVPTL LISLWVILNTLPELLQPA
10045	40413	A	10106	2821	4680	
10046	40414	A	10107	18	1535	
10047	40415	A	10108	3	1494	
10048	40416	A	10109	3	617	
10049	40417	A	10110	3	1142	
10050	40418	B	10111	1	2151	
10051	40419	B	10112	1	1461	
10052	40420	A	10113	1	1248	
10053	40421	A	10114	2	1624	

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10054	40422	A	10115	1	1416	
10055	40423	A	10116	1	2262	
10056	40424	A	10117	1	1791	
10057	40425	B	10118	1	1497	
10058	40426	B	10119	1	1599	
10059	40427	A	10120	1	1722	
10060	40428	A	10121	1	3168	
10061	40429	A	10122	1	1083	
10062	40430	A	10123	1	589	MGAIYDKPTANIILNGQKLEAF PLKTGIRQGCPLSLLLFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDPHISAPNLL KLISNFSKVSQYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEKEDTNKWKNIPCSWVG RINIVKMAILPKPYVES
10063	40431	A	10124	1	1566	
10064	40432	B	10125	1	2406	
10065	40433	A	10126	1	2478	
10066	40434	B	10127	69	1259	
10067	40435	B	10128	225	997	
10068	40436	A	10129	2	1124	
10069	40437	A	10130	1	2058	
10070	40438	A	10131	258	823	TLMQKSSAKYWQTESSTSKSL STMIKWASSLGCKAGSIYANQ* M*SSI/YTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMFTFFTELEKTTLKFIRNQ KRACIAKSILSQTKEASRYLTS NYTTRLQ
10071	40439	A	10132	1	1512	
10072	40440	A	10133	1	992	
10073	40441	B	10134	1	2019	
10074	40442	A	10135	1	1203	
10075	40443	A	10136	1	1578	
10076	40444	A	10137	1	2956	
10077	40445	A	10138	1	1983	
10078	40446	A	10139	1	3156	
10079	40447	A	10140	1	3325	
10080	40448	A	10141	1	1870	
10081	40449	A	10142	1	1446	
10082	40450	A	10143	1	2310	
10083	40451	A	10144	1	1293	
10084	40452	A	10145	1	1038	
10085	40453	A	10146	1	1713	
10086	40454	A	10147	1	2271	
10087	40455	A	10148	1	3654	
10088	40456	A	10149	1090	1647	

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10089	40457	B	10150	1	1248	
10090	40458	A	10151	1	1884	
10091	40459	A	10152	1	1140	
10092	40460	B	10153	1	1545	
10093	40461	A	10154	1	3300	
10094	40462	A	10155	1	1824	
10095	40463	A	10156	1	1023	
10096	40464	A	10157	1	2169	
10097	40465	A	10158	1	2661	
10098	40466	A	10159	1	1104	
10099	40467	A	10160	1	1668	
10100	40468	A	10161	1	1945	
10101	40469	A	10162	1	3303	
10102	40470	A	10163	1	1382	
10103	40471	A	10164	1	399	MPPVDASRDLRELNPLSSYKAK PNEYLLLQVLFLNRNTKEGLI RLLARYPDDLQQTESQIMSELP FTIASKRIKYPGIQLTKDVEDLF KENYKPLLSKEDANKWKNIP CSWIGRINIVKMAVLPKKKIWV
10104	40472	A	10165	1	2218	
10105	40473	B	10166	1	2562	
10106	40474	A	10167	1	3169	

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10107	40475	A	10168	1	2105	MKAEIKMFFETNENKDTTYQN LWDAFKAVCRGKFIALNAHKR KQERSKIDNLTSQLKELEKQEQ THSKASRRQEITKIRAELEKET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK WDITDPTEIQTTIREYYKHLA NKLENLEEMDKFLDYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLLKLFQSIGKEGILPNSFYE ASIIIPKPGRDTTKKANFRPISL MNIDAKILNKILAKRIQQHIKKL IHHDQHINKAKDKNHMIISIDAE KAFDKIQPFMLKTLNKLIGIDG TYFKIIRAIYDKPTANIILNGQKL EAFPLKTGTRQGCPSPLLFNIV LEVLARAIRQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFK/E NYKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKGFCFRN HHQTGFSPAGANQRGPLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINAAGTT GFPTGKRAVSATQLMDFADFG TTIKQDFRLLGQTSVDRLQLS QGQAVKGNQLLPVSLVKRKT LAPNTQTASPRALADSLMQLA RQVSRLESGQ
10108	40476	A	10169	1	1689	
10109	40477	A	10170	425	1333	
10110	40478	A	10171	1	2274	
10111	40479	A	10172	1	3828	
10112	40480	A	10173	3	3130	
10113	40481	A	10174	1	960	

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10114	40482	A	10175	746	2470	TLMQKSSIKYWQNESSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIIISIDAEK AFDKIQPPFMLKTLNKLIGDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLIRNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLLKEN YKPILLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKNWKKT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHTYNYLIFDKPEKNKQWGKD SLFNKWCWENWLAICRKLKLD PFLTPTKINSKWIKDLNVRPK TIKTLEENLGITIQDIGMGKDFM SKTPKAMATKAKIDKWDLIKL KSFCTAKEATIRVNRQPTKWEK IFATYSSDKGLISRIYNELKQIY KKKTNNPIKKWVKDMNRHFA KEDIYAAKKHMKKCSPSLAIRE MQIKTTMRYHLTPVRMAIIKKS
10115	40483	A	10176	1	3492	
10116	40484	A	10177	1	3139	
10117	40485	A	10178	637	2760	
10118	40486	A	10179	2	3932	
10119	40487	A	10180	1	1865	
10120	40488	A	10181	1	5754	
10121	40489	A	10182	959	1615	
10122	40490	A	10183	701	6973	
10123	40491	A	10184	3	3319	
10124	40492	A	10185	1	3296	
10125	40493	A	10186	1	2296	

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10126	40494	A	10187	1614	2615	TLMQKSSIKYWQTESSSTSKSL STMIKWASSLGMQGWFNICKSI NVIQHINRTKCKNHMIIISIDAEK AFDKIQPFLLKTLNKLIGDGT YLKIIRAIYDKPIANIILNGQKLT FEKFLKIGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKGIQLAKE EVKLSLFADDMIVYLENPIVSV QNLLKLISNFSKVSGYKIYKIDV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKIENHKPLLKEIKEDTNKWKN IP\CSWVGGRINLVKMAIL\PKVI YRFNAIPIKL\PMFTFFTELEKNYF KVHMEPKKEPVLPSQS
10127	40495	A	10188	141	401	
10128	40496	A	10189	1	156	MQFPKTKTKKKEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEGEE EKEEI
10129	40497	A	10190	1	1446	

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10130	40498	A	10191	272	2722	ETSCPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLLDTGAAFSVLISCPGRL SSTSVTIQGILGQPVTRYFSHLL SCNWETLLFSHAFLLMPERPTG LLGRDILAKAGAIHYMMNGNKL PICCPLEEGINPEVWALEGQFG RAKNAHPVQIRLKDPTTFPYQR QY/PLRPEAHKGLQNIVKHLKA QGLVRKCSSPCNTPILEVQRPRL VQDLRLINEAVISLYPVVNPYPT LLSQIPEEAEWFTVLDLKDAFF CVPLHSDSQFLFAFEDPTNHTS QLTWMVLPQGFRDSPHLFGQA LAKDLGHFSSPGTLVLQYVDDL LLATS*EALCQQATLDLLNFLA NQGYKVSMKAQLCLQQVKY LGLILAKGTRALSKE*IQPILAY PRPKTLKQLREFLGITSFCRLWI PGYSETARPLYTLIKDTQRANT HLVEWESEAETAFKTLKQALV QAPGLSLPTGQNFSLYVTERAG IALGVLTQTRGTTQPVAHLSK ETDVVAKGWPHCLRVVAAVA VLVSEAIKIIQGKDLIVWTTHEV NGILGAKGSLWLSDNCLLRYQ ALLLEGVVLQICTCMALNPATF LPEDGEPIKHDCQQIIVQTYAAR DDLLEVPLTNPDLNLYTDGSSF VENGI/RKVSDVTILESKPLPPGT SAQLAELVALTWALELGKGR

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10131	40499	A	10192	1	2529	MTQEPSAIMREVPEMVNILKGT GDIHNTEIQNDNGKVGMTKCM AKPKDELRLNKLILSESLESAQR QGVSKQEKVLQCRRAQDLQPT MPEPPIPSMGSCAARASPTSATP CSRAPSPTDHPTAAKCRMRMAR YWQAAPPAALVLDQLGEASW APESANLVGKWRTFVSSSGTA NAPISTLSKQTTGLYQSAGCGW GQNLGAKYRAPVGQLKATSTA ARLKTRVSGFLGKGSLLTPDSS ELGPLDPTDHTSQLTWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLILQYVDDLLLATSLEALCQ KATLDLLNFLANQGYKVSRLK AQLCLQSEIARPLYTLIKETQR ANTHLVVSEPEAVI/AFETLKQA LVHAPALSLPIGQNFSLYITERA GIALGDLTQTCGTTQPVAAYLS KEIDVVAKGWPHCLRVVAAVA ILVSEAIKIMQGKDLTVWTTTHD VNGILGAKGSLWLSDNHLLRY QALLLEGLVLQICTCVALNTAT FLPEDGEPIEHDCQQIIVQTYAT RDDLLEVPLTNPDNLTYTDGSS VVENGIRRAGYAIVSDVTILESK PLVPGTSAQLAELVALTRALEL GKGKIINVYTD SKYAYLILHAH AAIWKEWEFLTSGNPHGCHRE VMELLH MVQETKEVGVLHYQS HQNGKERGEQQRKQLAEASAA FLWGRALDLQPTMPEPPIPSMG
10132	40500	A	10193	1	197	
10133	40501	A	10194	1	259	
10134	40502	A	10195	1	295	
10135	40503	A	10196	1	439	
10136	40504	A	10197	1268	1420	
10137	40505	A	10198	1	389	
10138	40506	C	10199	1	298	
10139	40507	A	10200	2	90	
10140	40508	A	10201	3	1252	
10141	40509	A	10202	2	82	WMKLETSKLT*EQKTKHCMFS LISGS
10142	40510	A	10203	149	244	
10143	40511	A	10204	485	668	
10144	40512	B	10205	1	598	
10145	40513	C	10206	422	784	

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10146	40514	A	10207	3	899	IYNHLIFDKPDKNKQWGK\DSL FNKWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEENLGNTIQDIGMGKDFMTK TPEAMATKAKIDKWDLIQLKSF CTANETVIRVNRQPTWEKIFAI IYPSDKGLISKIYKELYEKKTNN LIKKWAKDMNRHFSKEDFYEA KKHEKSSSLLGQGVTKGGCCLP MNLLGTYRSEENPSEYQRRQLI KTLRVCKPSSSYFLTSDFLDTPS FSCEPTQTNELQGCSLRFVRAT AAGPVQVRGARLPSFAAPERGL AQIPRQMDSKI
10147	40515	A	10208	3	352	APGRRRLCQPAGGPGAWPGS AVPGSVSPAPDARSPISGPSRAL RRHLRPSAAGGPGLEIPTHDPH LPGVDYKEGRP\PSGKAGRGGP\ PGKGPSASGARALGVAAAA TPRASTL
10148	40516	A	10209	1	510	
10149	40517	A	10210	73	327	
10150	40518	A	10211	1	957	MWSTCKLHGQGAKYILCAEEL SWGAASCLHGSTMSLTVV SMA CVG\AWPLMGQDKP/FLSARP STVVPRGGHVAF/RCHYRRGFN NFMLYK/EDRSHVPIFHGRIFQE S/FIMGPVTPAHAGTYRC/RGSR PHSLTGWSAPSNP/LVIMVTGN HRKP/SLLAHPGPLLKSGETVI/L QC/WLSA/PSDPLDIVIT/GWENP CLSHVL*S*SHS*ELPADDGEKH GQMQRPKTG*NPSSSWPSPT/ PSSKSGICR/HLHVLIGTSVVIFL FI/LLLFFLLYRWCSNKK\DSDE QDPQEVTYAQL/NHCVFIQRKIS RPSQR/PKTPLTDSVYTELPNA
10151	40519	A	10212	351	637	AWIGDMGLDWRYGLRVEISA WSGDMGLEWRYGL\REGMFN DTLRLIGEHHDGVS KANFSISR MKQDLAGTYRCYGSVTHSPYQ LSAPSDPLDIVII
10152	40520	A	10213	1	1314	
10153	40521	A	10214	1	1008	

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10154	40522	A	10215	3	1080	GQDKPLLSAWPSLVVPLGHVIL RCHSYLGFNNFSLYKEGVHRKP SLLAHPGRLVKSEETVILQCWS DVRFEHFLHREGKFKDTLHLI GEHHDGVSKANFSIGPMMQDL AGTYRCYGSVTHSPYQLSAPSD PLDIVITGLYEKPSLSAQPGPTV LAGESVTLSCSSRSSYDMYHLS REGEAHERRFSAGPKVNGTFQ ADFPLGPATHGGTYRCFGSFRD SPYEWSNSSDPLLVSVTGNSRY LHALIGTSVVIIPFAILLFLLHR WCANKKNAAVMDQEPAGNRT VNSEDSDEQDHQEVSYA*LDH CVFTQREITRPSEPKTPPTDTS MYIELPNAEPRSKVVFPCRAPQ
10155	40523	A	10216	3	1379	
10156	40524	A	10217	352	1825	
10157	40525	A	10218	1	1497	MGLEWRYGPGGADMDEWRY GPGVEMWVWSGDMGLEVEIR AWSGDMGLEWRYEPGDGDMG LEWRYGPGGGQDKPLLSTWPS LVVPPEHVTLRCHSNLGFNNFS LYKDDGVVPPELYNRIFWKSLE MGPVTPSHTGTYRCRGSHTHSP SGGSAPSNPLVIVVTGFRRKPSL LAHPGPLVKSEETVILQCWSDV MFEHFLHREGTFNHTLRLIGE HIDGVSKGNFSIGRMTQDLA GTYRCYGSVTHSPYQLSAPSDPLD IVITGLYEKPSLSAQPGPTVL AGESVTLSCSSRSSYDMYHLS REGAEHERRLPAGPKVNRTFQAD FPLDPATHGGTYRCFGSFRDSP YEWSKSSDPLLVSVTGNSSNS WPSPTEPSSETGNPRHLHVLI GTSVVKLPFTILLFLLHRWCS NKKNASVMDQGPAGNRTVNRE DSDEQDHQEVSYA*LDHC VFTQRKITP PSQRPKTPPTD SSMYIELPNAES RSKAVFC PRAPQSGLEGIF
10158	40526	B	10219	114	1944	

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10159	40527	A	10220	20	1138	AGARPPVCTGSTMSLMVIIIMAC VGFFLLQGAWPQEGVHRKPSF LALPGHLVKSEETVILQCWSDV MFEHLLHREGKFNNTLHLIGE HHDGVSKANFSIGPMMPVLAG TYRCYGSVPHSPYQLSAPSDPL DMVIIIGLYEKPSLSAQPGPTVQ AGENVTLSCSSRSSYDMYHLSR EGEAHERRLPAVRSINGTFQAD FPLGPATHGGTYRCFGSFRDAP YEWSNSSDPLLVSVTGNPSNSW PSPTEPSSKTGNPRHLHVLIGTS VVKIPFTILLFFLLHRWCSDKKN AAVMDQEPAGNRTVNSEDSDE QDHQEVSYA*LDHCVFTQRKIT RPSEPKTPPTDTSMYIELPNAE PRSKVVFCPRAPQSGLEGIF
10160	40528	A	10221	1	1334	MSLMVVSMACVGLFLVQRAGP HMGQDKPFLSAWPSAVVPRG GHVTLRCHYRHRFNNFMYLKE DRIHIPIFHGRIFQESFNMSPVTT AHAGNYTCRGSHPHSPTGWSA PSNPVIMVTGNHRKPSLLAHP GPLVKSGERVILQCWSDIMFEH FFLHKEGISKDPSRLVGQIHDG VSKANFSIGPMMQDLAGTYRC YGSVTHSPYQLSAPSDPLDIVIT GLYEKPSLSAQPGPTVLAGEV TLSCSSRSSYDMYHLSREGEAH ERRFSAGPKVNGTFQADFPGLP ATHGGTYRCFGSFRDSPYEWSN SSDPLLVSVTGNPSNSWSPTEP SSETGNPRHLHVLIGTSVVIILFI LLLFFLLHRWCNKKNAAVM DQESAGNRTANSEDSDEQDPQ EVTYTQLNHCVFTQRKITRPSQ RPKTPPTDIIVYTELPNAESRSK
10161	40529	A	10222	50	492	RARHRVTRPSIRKHSGHIRRLC LTCSSGVFLQGLRAGSRGTGPG LRTGWRLSPRAPRRRLHTPSAS SP*CSQ*RGPSAGTAAGARRRW RCRGQLRHPAGTSPPGRRWTG TACGPPAAPPAPWHSSWSCPHS GAGPPWSPACRTASL

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10162	40530	A	10223	3	3159	QAEFAAASTTPALGSDGVRVT MDSALTARDRVGVQDFVLLN FTSEAAFIENLRRRFRENLIYTYI GPVLVSVNPYRDLQIYSRQHME RYRGVSFYEVPPHLFAVADTV YRALRTERRDQAVMISGESGA GKTEATKLLQFYAETCPAPQR GGAVRDRLQSNPVLEAFGNA KTLRNDNSSRFKYMVDVQFDF KGAPVGGHILSYLLEKSRVVHQ NHGERNFHIFYQLLEGGEEETL RRLGLERNPQSYLYLVK
10163	40531	A	10224	1	2810	MLNGCAHAHPFPTRILSECPRG MLRAGFHLNRREALPPSRSHIS AAVLAPGALLSWGPDHPLELY GLHSHQDPPTGYEGVKGAPVG GHILSYLLEKSRVVHQNHGERN FHIFYQLLEGGEEETLRRGLER NPQSYLYLVKGQCAKVSSINDK SDWKVVRKALTVIDFTEDEVE DILLSIVASVLHLGNIHFAANES NAQ\VTTENQ\VKYLTRLISVE GSTLREALTHRKIIAKGEELLSP LNLEQAAYARDA
10164	40532	A	10225	1	416	FRGVARQLRTSAMTMPVNGAH KDADLWSSHDKMLAQPLKDSD VEVYNIIKKESNRQRVGLELIAS ENFASRAVLEALGSCNNKYSE GYPGQ\GSPANFAVYTALVEPH GRIMGLDLPDGGHLTHGFMTD KKKISATSI
10165	40533	A	10226	135	840	GSPANF/AV/YTALVETHGCIMG LDLPDGGHLTHGFMTDKKKIS ATSIFFESMPYKGGPHNHTIAG VAVALKQAMTLEFEVYQHHV VANCRALEALTELGYQTVTG CSDKHLILVDLHSIKGTDGRRRA EKVLEACSIACNKNTCPDDRNT LRPSGLRLGNPALTSGLLEKG FQKVAHFIHRGIELTLQIQSNAG IRATLKEFKERLAGHKYQGCV QALQEEVESFTLFLPLPLPDF

[illegible]

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10170	40538	A	10231	73	393	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEALQRVETGVPG LLTPLPDLGRSVALQFPDQLLG DAVAVAAARLEETTGSKMFI\G DTAYGCCVDVLGAEQAGAQAQ
10171	40539	B	10232	191	367	
10172	40540	A	10233	131	1681	RTQAPKLSQGGPRCIPPPKLCL MESMFSSPAEALQRETGVPG LLTPLPDLGVDYELERVAGFVR DLGCERVALQFPDQ\LLGDAVA VAARLEE\TTG\SKMFI/LGVDT AYGCCVDVLGAEQAGAQAALI HFGPACLSPPARPLPVAFVLSST FCGLGTLCQDLWGPKPRPQSAC GAA\GEPACAHAEALATLLRP RYLDLLVSSPAFPQPVGSLSP MPLERFGRRFPLAPGRRLEEY AFYVGGSKASPD\PD\PDLSRL LLGWAPGQPFSSCCPD\TGKTQD EGARAGGLRARRRYLVERARD ARVVGL\LAGTLGVAQHREAL AHLRNL\VQAAGKCSYVLALG RPTPAKLANFPEVDV\FVLLACP LGALAPQLSGSFFQ\PILAPCELE AACNPAWPPPG/LWVPHLTH/Y IADLLPGSPFHVALPPPESELWE TPDVSLITGDLRPPPAWKSSND HGSLALT\PRPQLELAESSPAASF LSSRSWQGLEPRLGQTPVTEAV SGRRGIAIAYEDEGSG
10173	40541	A	10234	3	605	AAAREAAGRDMLAADLRCSLF ASALQSYKRDSVLRPPFASYAR GDCKDFEALLADASKLPNLKEL LQSSGDNPQTGPGDLVSLDFYP QKVLTNPVQVQ/WECSFEKDSK S*LGLLTRLFLHRTSCLKLST/SD PANAKFYETKGERDLIYAFHGS RLENFHSHHNGHLHCHLNKTSLF GEGTYLTSDLSLALIYSPHGHG WQH
10174	40542	A	10235	197	895	LGLLTRLFLHRTSCLKLST/SDP ANAKFYETKGERDLIYAFHGS LENFHSHHNGHLHCHLNKTSLFG EGTYLTSDLSLALIYSPHGHGW QHSLLGPI\SCVAVCEVIDHPD VKCQTKKKDSKEIDRRRARIKH SEGGDIPPKYFVVTNNQLLRVK YLLVYSQKPPKRASSQLSWFSS HWFTVMISLYLLLLLIVFCGLL ALQDRGLPQVCPQIPCGWRPPS EGSQVFETQPGL

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10175	40543	B	10236	1	1059	
10176	40544	B	10237	226	522	
10177	40545	A	10238	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNQPKHELTNFKSAA ED
10178	40546	B	10239	101	397	
10179	40547	A	10240	2	253	LQEFGRKDPPTTSGPQTDQAR EHLTNFKSSA/CQIPWNSGPRLS E*LLPRSSRLSS*RLT/RAQSPW KPTGQSQMLWVTLTVEGT
10180	40548	B	10241	1	409	
10181	40549	C	10242	1	462	
10182	40550	A	10243	1	861	
10183	40551	C	10244	1	140	
10184	40552	B	10245	1	1773	
10185	40553	B	10246	1	320	
10186	40554	C	10247	1	420	
10187	40555	A	10248	273	485	LGSGDLPWGINPLSSCSLLREK DPLTISGPQTHQPKHELTNFKSG PTENRTVQLTWQPLPEPLELW PKAL
10188	40556	A	10249	508	558	
10189	40557	B	10250	76	358	
10190	40558	C	10251	83	414	
10191	40559	B	10252	1	1111	
10192	40560	C	10253	1	411	
10193	40561	B	10254	1	1054	
10194	40562	B	10255	57	229	
10195	40563	B	10256	1	222	
10196	40564	A	10257	230	1272	LLCSSACKCLMLGLHFVIVGNI CATLKEYSSMLHLDVTMCKN GEKRTRLQKRKKGMPPHPAYE DLNIAAITLPANVVLHQPSGFRT SGQLDPVWWSLDTDAHEIWCQ DPGLGSGDFPWEITPLSSYSLLH EKDPPTTSGPQTDQPKKHLTNF KSKTKETGFIHGPKTPAPVTDW EGSLPLVFNHCRDTSIIHPCFK GVRPRRDACLGPSPLAASPAFL EKGQDLINLAFKVYNNRKKLQ FLASTVRQTAATSPAHNKFNQMP EPQRPGVPPEPPPTGACYMCRK SGHWTRNAGSPGFLLSRVPSV WDPTENRTVQLTWQPLPEPLEL WPKALCLTDSFPDLLGLAA

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10197	40565	A	10258	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIIKKSGNNRCRRGCGEIGTLLH CWWDCCLVQPLCKSMWRFLR DLADPAIPLLGIYPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP
10198	40566	A	10259	1	1947	MNIDAKILN̄KILANRIQQHIKKL IHHDQVGFIPGRQGWFNICKSIN VIQHINRAKDKNHMISIDA EKA FDKIQQLFMLKTLNKL GIDGTY FKIIRAIYDKPTANIILNGKKLEA FPLKTGTRQGCPSPLLFNIVLE VLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIWNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTAWYWYQNRD IDQWNRTQPSEITPHIYNLIFD KPDKNKQWGKGSLFNKWCWE NWLAI CRKLKLDPFLTPYTKIN SRWIKDLNVRPKTTKTLEENLG ITIQDIGMGMDFMSKTPKAMAT KDKIDKWDLIKLKSFACTAKETT IRVNRQPTKWEKIFTTYSSDKG LISRIYNELKQIYKKKTNNPIKK WAKDMNRHFSKEDIYAAKKH MKKCSPSLAIREMQIKTTMRYH LTPVRMAIHKSGNNRCWRGC GEIGTLLHCWWINWMKKTWH IYTMEYYASIKKNEFMSFAGA* MKLETII
10199	40567	A	10260	1	347	TNKIDRPLARLIKKKREKKQID AIKNDKGDITTDPTETQTTIKEY YKHLYANKLENLEEMDKFFDT YTLPRLNQEEVESLNRPIAGSEI EAIINSLPT/KKSPGPDGFTAKFY QRE

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10200	40568	A	10261	31	809	KPRLNYYVKNAEASGADAINW KKGYY/LVMEDEMNMKREGKF REKRIKRNEQSLQEIWYVKRP TLHLIDVPETLNAHKRKQERSK TDTLTSQLEKEKQEQTTHSKAS RRQEITKIRAELEKEIETEKTLQKI NESRSWFFERINKIDRPLARLIK KKREKNQIDAIKNDKGDITS DP TEIQTITIREYYKHL YANKLENL EEMDKFLD TYTL PRLNQEEVES LNR PITGSEI VAIINS LPTKKSPG PDGSTAEFYQRYKEEL
10201	40569	A	10262	209	3816	QGRPTFRFRKYREHHKDTPREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLP TKGSPSD*KRISRQ/ KTLQARRQSWFF EKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPT EIQTIREYYKHL YANK LENLEEMDKFLD TYTL PRLNQE EVESVNR PITGSEIEAITNSLPTK KSPGPDGFTA E FYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASH LIPKPGRD TTKGNFRPISLMNI DAKIL
10202	40570	B	10263	I	2265	
10203	40571	A	10264	I	2832	
10204	40572	A	10265	I	2757	

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10205	40573	A	10266	1	2114	MKEKMLRAAREKGRVTHK GK PIRLTADLSAETPQARREWGPIF NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTTTRPVLK ELLKEALNMERNN WYQPLQKH AKNMPNSIILIPKGRDTTTKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIPGMQGW F NIHKSINVIQHINRTIDKNHMIIS IDAEKAFDKIQQLFMLKTLNKL GIDGTYLKIRIKYLG IQLTREVK DLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPKVI YRFNAISNKLPM TFFTELEKTTL NFIWNQKRARIAKSILSQKNKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGKDSL F NKWCWENWLAVCRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLKS F CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKKYMKKCSPSLAIREMQIKT TMRYHLTPVRMAIHKSGNNR QTESQIMSELPITIA SKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWIGRINIVK/T WPYCPSPQMYMSPTWQPKTLQ LWRQPKYPWKGT HRRKK
10206	40574	A	10267	1	2952	MLLNQGRKLPRVFAEETLKFK GTSNKPQTLEQISTSIIAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLFEQTLN YLQEF LFTP QWHLECQQERTVHSPGKAAEA REPSVIDRH LIQESSNWHLVGA ALGQSFQRKEQAAIFA VLQPLL VIPRQTGSGVDLQKTPTDLQQR GLIVRRKTNKQKGIVHNSTTRE QNWTENEFDKLTEGGFKRWVI TNSSELKEHVLTQCKEDKNLEK SAIKLELRIKNLIQN
10207	40575	A	10268	1	1797	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10208	40576	A	10269	1	1751	MIISIDAEKAFDKIQQPFMLKTL NKLIGDGTTFKIIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLL FNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPPFTELEK TTLKFIWNQKRARIAKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTKDKIDKWDLIKL KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNGLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKKHMKKCSSSLAIREM QIKTTMRYHLTPVRMAIHKSG NNRNHLDFKHirilGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA
10209	40577	A	10270	1	4729	
10210	40578	A	10271	1	1428	

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10211	40579	A	10272	1	2718	MALFRVGMTTRRLGHANKFTR DLLVKRLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQECSSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQEITKIRAEKIE TQKTLQKINESRSWFFKINKID RPLARLIKKKREKNQTDTIKND KGDITDPTETIQTIREYYKHL TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPIGTSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLSQIEKERILPNSSYE ASIIIPKPGRDTTKKENFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVIQHINRTKDKNHMISIDAE KLISKFSKVSGHKINVQKSQAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNIPCSWVG RINIVKMALLPRFSAIPIKLPM FFTELEKTTLKFIWN/QKRARIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNYLIFDKPDK KKEWKGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKMNSRWI
10212	40580	A	10273	396	1227	SLGRNSTSQKRVGANIQHS*RK EFSTQNFISSTTLHK*RRNKIL YRQANAERFCHHQACPKTAPE RSTKILERNRRLPARLIKKKREK NQIDATKNDKGDITDPTETIQT IREYYKHL YANKLENLEEMDK FPD TYTLPRLNQEEVESLNRPI GTSEIEAIKSLPTKKRPGPDRTA EFYQRYKEELVPFLLKLFQSTE KEGILPNSFYEASIIIAKPGRD TTKKENFRPISLLNIDAKILNKILA NRIQQHIKKLIHHDQVGFIPGM QGWFNI
10213	40581	A	10274	1	2168	
10214	40582	A	10275	1	1845	

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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10215	40583	A	10276	1	2877	MENDFDELREEGFRQSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERV SAME DEM NEMKGEGKFREKRIKRNE QSLQEIW DYVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQT TISEYYKHLYTN KLENLEEMDKFLD TYTLPTLNQ EEVESLNR PITGAE
10216	40584	A	10277	1	1689	MIFSIDAEKAFDKIQQPFMLKTL NKL GIDGMYLKIIRAMYDKPA ANIILNGQKLEAFPLKTGTRQG CPLSPLLFNIVLEV LARAIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPITSAQNLLKLISNYSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLL NKIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYTFSAIPIKLPM TFFTELEK TTSKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDKNKQWGKDS LFNKWCWENWLDIWRKLKLD PFLTPYTKINSRSIKDLHVRPKTI KTLEENLGDTIQDIGMGKDFMS KTSKAMATKAKIDKWDLIQLK SFCTAKETTIRVNRQPTWEKIF AIYSSDKGLIFRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEAI YAAKRHMKKCSSSLAIREMQIK TTLSLPAQVSVV/RHGLSFCWD SRGCGKSGLFLAYSINPPQSH WDQEQVM
10217	40585	A	10278	1	2142	

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10218	40586	A	10279	1	1722	MIISIDAEKAFDKIQQRFMLKTL NKLGIDGLYLKIIIRAIYDKPTAN IILNGQKLEALPLKTGTRQGCPL SPLQFNIVLEVLAIRQEKEIK GIQLGKEEVKLSLLADDMIVYL ENPIVSAQNLLKVISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMFTFFTELEKTT LKFIWYQKRARITKSILSQRNK AGDITLPDFKLYYKATVNKTA WYWHQNRHIDQWNRTKPSEIT LHIYNLYFFDNPDKNKKWGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI KTLEENLGITIQDIGMGKYFMT KTPKAMATKAKIDKWDLIKLK SFCTGKETTIRVNRQPTKWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAAKKHMKKCSPSLAIREMQI KTTMRYHLTPT/RLIVIGIEECLR GKEKLETLYYWSNDDTHQV*W LGWP*WKS DHKKEQPSF

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10219	40587	A	10280	1	2076	MDKFLNTYTIPRLNQEEVESLN RSITGSEIEAIHNNLPTKRSPGPD GFTPEFYQRYKEELVPFLLKLF QSIVKEGFLPNSFYEGSIILITKS GRDTTKKENLRPISLMNINAKIL NKILANQIQQHIKKLIHHEQVDF IPGMQGWFNIRKSINVIQHINRT NDKNHMIISIDA EKAFDKIQQLF MLKTLNKL GIDGTYLKIIIRAIYD KHTANIILNGQKLEAFPLKTGT RQGCPLSPLLFNIVLEVLARAI QEKEIKGIQLGKEEVKLSLFAD DMIVYLENPIVSAQNLLKLIGNF SKVSGYKISVQKSQAFLYTNKR QTESQIMSELPFTIVSKRIKYLGI QLTRDVKDLFKENYKPLLNEIQ DETNKWKNCSWVGRINIVKM VILP/KELEKTTLKFIWNQKRAR IAKTILSQKNKAGGITLPDFELH YKATVTKTACYLYQNRDIDQR NRTEPSEIMPHIYNYLIFDKSDK NKKWKGDSL FNKWCWENWLA ICRKLKLD PFLPPYTKINSRWIK DLNVRPKTIK TLEENLGNTIQDI GMGKDFMSKTPKAMSTKAKID KWDLIKLSFCTAKETAIRVNR EPTWEKIFA IYSSDKGLISRIYN EFKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAANRHMKKCSSS LAIREMQIKTTQVGGSEKSAS ELGNKLIELDQSEEWRGKD

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10220	40588	A	10281	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRIKNLTQNRSTTWKLN NLLDDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLELEKQEQTHSKASRRQ EITKIRAELEKETQKTVQKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTIEQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKTLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
10221	40589	A	10282	1	1996	

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10222	40590	A	10283	1	1778	MIISIDA EKAFDKIQQPFMLKTL NKL GIDGTYLK IIRAIYDKPTAN IIPNGQKLEAFPLKTGTTQGCPF SPLLFNIVLEVLARVIRQEKEIK GTQLGKEEVTL S L FADDMIVYL QNPVSAQNLLKLIGNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFKWNQKRACIAKSILSQKNK AGGIMLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDQNKQWGKDS LFNK WY WENCLAICRKLKLDP FLTPYTKINSRWIKDLNVRLKTI KALEENLGNTIQDIGMGKDFMS KTPKAMATKDKIDKWDLIKPK SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRNYNELKQIYK KKTIGPIKKWAEDMNRHFSKE DTYAAKKHMKKCSSLAIEM QIKTTMRYHLTPVRMVIKKSG NNRCWRGCGETGTL SHCWWD CKL/IQPLW/RFLRD*GPKTGGD S*MIQVKY*PQQKKKGCPNA
10223	40591	A	10284	3	2875	

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10224	40592	A	10285	1	1838	MIIPIDAEKAFDKIQPFMLKTL NKLGIHGMYLKIIIRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LPPLLFNIVLEILARAIRQEKEIK GIQLGKEEVKLSLFADDMIIYLE NPIVSAQNLLKLISNFSKVSGYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMFTFFTELEKTTLK FIWNQKRARIAKTILSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSLF NKWCWENWLAICGKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELKQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSSLAIREMPIKT TMRYHLTPVRMAIIKKSNNRC WRGCGEIGTLSHCWDCNLVQ PLWKA VWRFLKDLELEIPFDPA ISLLG/IYPKDYKSCCYKDTCTQ STFTCRQHLPL
10225	40593	A	10286	1	2046	

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10226	40594	A	10287	1	1700	MEDEMNMKQEGKFREKRIKR NEQSLQEIWDYVKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIIQEIQRMPQRYSS RRATPRHIIVRFTK VEMKEKMS RAAREKEIQTTIREYYKHLYAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQROSESQI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMFTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI ETLEENLGITIQDIGMGKDFMS KTSKAMSTKAKIDKWDLIKLKS FCTAKETTIVNRQPTKWEKIF ATYSSDKGLISRIYNELKQIYKK K\TNPNPIKKWVKDMNRHFSKE DIYAAKRHMKKCSSSLAIREMQ IKTTMRYHLTPV
10227	40595	A	10288	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQT HSKASRRQEITKIR AELKEIETQ

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10228	40596	A	10289	1	2019	MDTIKNDKGDITDPTEIQTIR EYYKHL YANKLENLEEMDKFL DTYTL PRLNQEEVESLNRPV RG SEIEAI NSLPT/KKSPGPDEFTAE FYQRKAFDKIQQAFTLKT LNK LVIDGTYRKIIRAICDKPTANIIL NGQKLEAFPLKTGTRQGCP LSP LLFNIVLEVLDRAIRQEKEITCIQ LGKEEVKLSLFADDMIVYLENP IISAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLG IQLTRDVKD LFKENYKPLLNEIKEDTNKWEN IPCSWVGRINIMKMAILPKVIYR FNAIPIKLPVAF FTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLKLDPFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNTILDIGMGKDFMSKTP KAMATKAKIDNWDLIK LKSFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELKQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPPIFRLS IILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
10229	40597	A	10290	1	3144	MGDFNTPLSTLDRSSRQKV NK DTQELNSTLHHADLIDIYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEITNCLSDHS AIKPELRIKKL TQNRSTTWKLN NLLLNDYWVHNKMKA EIKMFF ETNENKDTTYQNLWDTFKAVS RGKFIALNAHKRKQKRCKIDTL ASQLKEVEKQE QTHSKASRRQ EITKIRAE LKEIETQKTLQKINES RSWFLERINKIDRPLARLIK KKR EKNQIDVIKNDK
10230	40598	A	10291	1	2274	
10231	40599	A	10292	1	2250	
10232	40600	A	10293	1	822	

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10233	40601	A	10294	I	2605	MKAEIKMFFETNENKDTTYQN LWDAFKA VCRGKFIALNAYKR KQERSKIDTLTSQLEKQEQ SHSKAGRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK GDITNPTEIQTTIREYYKHLA NKLENLEEMDTFLDTYTLPRLN QEEVGS LNTPITGSEIVAINSLP TKKSPGPDGFTAIFYQRYKEEL PGRVPTKKENFRPISLMNIDAKI LNKILANRIQQHIKKLIHHDQV GFIPGMQGWFNIRKSINVIQHIN RAKDKNHMII SIDA EKA FDKIQ QPFMLKTLNKLGDGTYFRIIRA IYDKPTANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLAR AIRQEKEIKGIQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYNFYVQKSQAFLYT NNRQTESQIMSELPFTIASKRIK YLG IQLTRDVKDLFKENYKPLL KEIKEDTNKWKNI PC SWVGRIN IVKMAILPKVIYRFNAIPIKLPM TFFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLYY KATVTKTAWYWYQNRDIDQW NRTEPSEIMPHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLA ICRKLKLDPFLTPYTKINSRWIK DLNVRPKTIKTLEENLGITIQDI GVGKDFMSKTPKAMATKAKID
10234	40602	B	10295	III	2440	

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10235	40603	A	10296	1	1795	MIISIDAEKAFDKIQPFMLKTL NKLSIDGTYFKIIRAIYDKPTANI ILNGQKLEAFPLKTGTRQGCPL SPLLFNIVLEVLARAIRQEKEIK GIQLGKEEVKLSLFAHDMIVYL ENPIVSAQNLLKLISNFSKVS KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSGVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKGACITKTILS\QKNK VGGITLPDFKLYYKATVTKTA WYWYQ\NRDIDQWNRKIPSEIM PHIYNYLIFDKPEKNRQWGEDS LFNKWCWETWLAIWRKLKLD FLTLYAKIN*RWIKDLNVRPKTI KTLEENLGITIQD\IGMGKDFM SKTPKAMATKAKIDKWDLIQL KSYCTAKENTIRVNRQPTKWE KIFATYSSDKGLITRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKKCSSSLAIRE MQIKTTMRYHLTPVRMAIIQKS GNNRTKRTIYRRNDDDDND NDDDSLMSLSRTEIPFSSYSELN VVLHKPRPEPSASTILLHTA
10236	40604	A	10297	1	2851	
10237	40605	B	10298	1	3220	

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10238	40606	A	10299	1	2047	MENDFEELREEGFRRSNYSELR EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVSA MED EMNEMKREGKFREKRIQRNEQ SLQEIW DYVKRPNLRLIGVPET LHPRDEAHLKNLIDA IKNDKGD ITTDPT EIQT TIREYYKHL YANK LENLEETDKFLD TYTL PRLNQE EVESLNR PITGSEIVAI INSLPTK KSPGPDGFTA EFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILIHQ QQTNREP NHE* TPIHNC FKENKI PRNPTYKGCEGPLQGELQTTAQ GNKRGYKQMEEHSM LMGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNP KPKEQSWRHHTT *LQTI LQGYSNQNSMVL VPKQR YRSMEQN RALRNNAAYLQLSD L*QT*EKQEMGKGFP I**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNPRRKP RHYHSGHRHGQGLHV*NTKSN GNKSN*QMGSN*TKELLHSK KKKNY*QTEQATCKMGENFHN LLI*QRANIQN LQ* TQTNLQEKN KQPHQKV GKGHEQTLLKRRHL CSQK\NHEKMVTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS

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10239	40607	A	10300	1	2704	MYSHVITVCRHVKNGDILLNR QPTLHRPSIQAHRARILPEEKVL RLHYANCKAYNADFDGDEM AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFFTREHYMELVY RGLTDKVGRVKLLSPSILKPFPL WTGKQHINRTKDKNHMHSIDA EKAFDKIQPFMLKTLNKLIGID GTYLKIIRAIYDKPTASIIINGQK LEAFPLKTGTTRQGCPLSPLLFNI VLEVLARAIRQEKEIKSIQLGKE EVKLSLFADDMIVYLENPTVSA QNLLKLMSNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSGLP FTITSKRITYLGIQLTRDVKDLF KENYKPLLKEIKEDTNKWKNIP CSWVGRINIVKMAILPKVIYRF NTIPIKLPMFTLTELEKTTLKF WNQKRAHIAKSILSQKNKAGGI MLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMPHI/Y YNYLIFDKPEKNKQWGKDTLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKT PKATATKAKIDKWDLIQLKSFC TAKETTIRVNRQPTWEEIFAIY SSDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSEEDIYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMVIKKSGNNRC
10240	40608	B	10301	1	3345	

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10241	40609	A	10302	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMMLST CDIDLTAARRAWLGCLPTKKSP GPDGFTAIFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASILI PKRGRDTTKKENFRPISLMNID AKILNKILANRNQQHIKKLIHH DQVGFIPGMQGWFNICKSINVI QHINRTKDKNHMIIISIDAEKAF DKIQPPFMLKTLNKLIGDGYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTRQGCPLSPLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKKWKNI PCSWVG RJNIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAG\GIT\LPDFK LYLQGLQ*PKTAWYWY\QNRD IDQWNRTEPSEITPHIYNYLIFD KPEKNKQWGKDSL FNKWCWE NWLATCRKLKLD PFLTPYTKIN SRWIKDLNVRPKTIKTEENLGI TIQDIGVGKDFMSKTPKAMAT KAKIDK WDLIKLKS FCTAKETA IRVNRQPTTWEKIFATYSSDKG LISRIYNELKQIYKKK\TNNPIKK WAKDMNRHFSKEDIYAANKH MKKCSPSLAIREMQIKTTMRYH

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10242	40610	A	10303	1	2467	MGDFNIPLSTSDRSTRQKVND TQELNSALHQADLIDIYRTLHP KSTEYTTFFSAPHHTYSKIDHIVG SKALLSKCRRTEIITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNLL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQT HSKASRRQEI TEIRAE LKEIETQKTLQKMNES RSWFF EKINNIDRL LARLIKKKR EKNQIDA IKNHKG DITTNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQE QVESLNRPI TGAEIEAIINSLRTKKSPGPGGF TAEFYQRYKEKLIVLEVLARAI RQEKEIKGIQLGKEELKLSLFAD DMIVYLENPIVSAQNLLKLISNF SKVSGYKINVQKSQAFLYSNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEV KEDTNKWKNI PCSWIGRINIVK MAILPKVIYRFSAPIKLPM TFFT ELEKTTLKFIWNQKRSRIAKSIL SQKNRAGGITLSDFKLYYKATV TKTAWYWYQNRDIDQWNKTE PSEIMPHIYNYLIFDKPKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLTPYTKINSRWIKDL NVRPKTIKTLEENLGITIQDTGM GKDFMSETPKAMATKDKIDKW DLIKLKS FCTAKETTIRVNRQPT
10243	40611	A	10304	2	2480	
10244	40612	A	10305	1	4793	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLS DHS AIKLELR IKNLTQSRSTTWKLN NLLLNDYWVNNEMKAEIKMFF ETKENKDTTYQNLWDAFKA VCR RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQT HSKASRRQE ITKIRAE LKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDTIKNDK
10245	40613	A	10306	1	4320	

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10246	40614	A	10307	1	3229	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLQ PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNL\WDAFKAV CRGKFIALNAHKRKQERSKIDT\ LTSQKLEKQEQTTHSKASRRQ EITKIRAEELKEIETKKVTLQKINE SRSWFFERIKKTDRPLARLIKKK REKNQIDTI
10247	40615	A	10308	1	3392	MGDFNTPLSTLDRSRQKVNK NTQELNSALHQVQLIDIYRTLH PKSTEYTLFSAPHHTYSEIDHV GSKALLSKCKRTEIITNCLSDHS AIKLELRIKKLTQNCSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYPNLWDTFKAVC RGKFIALNAHKRKQERSEIDTL TSQKLEKQEQTTHSKASRRQE ITKIRAEELKEIETQKTLQKINESR SWFFEKINKIDRPLARLIKKKRE KNQIDSIKNDK
10248	40616	A	10309	1	4137	MGKKQNRKTGNSKKQRASPPP KEHSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VENFEKNLEECITRITDIEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSADEMNEMKQ EGKFREKRIKRNEQSLQEIWY VKRPNLPPIDVPESDRENGTKL ENTLQDVIQENFPNARQANIQI QEIQRMPPQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTS
10249	40617	A	10310	1	5195	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIHIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQKLEKQEQTTHSKASRRQE IMKIRAEELKEIETQKTL\QKINE\ SRSWFFERINKIDRPLARLIKKK REENQID\AI

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10250	40618	A	10311	1	2958	MKQEGKFREKRIKRNEQSLQEI WDYVVRPNLHLIGVPESDREN GTKLENTLQDIIQEDFPNLARK ANIQIQEIQRTPQRYSSRRATPR HTIVRFTKVEMKEKMLRAARE KGRVTHKGKPIRLTADLSAETL QARRELNQEEVESLNKPVTGSE VVAIINSLPTKKSPGPDGFTA YQKYKEEPVPFLLKLFQSIEKE GILPNSFYEASIIIPKPGRD TTK KENFRPISLMNIDAKILNKILAN RI\QQHIKK
10251	40619	A	10312	5211	7687	TDTSQKKTFYAAKRHMKKCSS SLAIREMQIKTTYHAGPDGFTA EFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIIPKPGRD TT KK\ENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFI PGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKAFDKIQPFMLK TLNKL GIDGTYFKIIRAIYDNPT ANIILNGQKLEAFPLKTGTRQG CPLSPLLFNIVLEVLARAI RQEK EIKGIQLGKEEVKLSLFADNMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSQLPFTIASKRIKYLGIQ LT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSGIEGRINIVKMAIL PKNWKKTTLKFIWNQKRARIA KSILSQKNKAGGITVPDFQLYY KATVTKTAWYWYQNRDIDQW NRKEPSEIMPHIYDSLIFGK PDK NKQWKGKDSL FNKWCWEDWLA ICRKLKLDPFLT PCTKINSRWV KDLNIRPKTIKTLEENLGNTIQD IGMAKDFMSKTPKAMATKAKI DKWDLIKLKSFC TRIAKEPTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKHKMK KCSSSLAIREMQIKTTMRYHLT PVRMAIIKKSGNNRCWRGCGE TGTL LHCWWDCCLAQPLWKS

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10252	40620	A	10313	1	4525	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH HKSTEHTFFAAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRINKNLTQNRSTTWKLN LLNNYWVHNEMKAEIKMFFE TNKNKDDTTYQNLWDTFKA VCR GKFIALNAHKRKQERSKIDTLT SQLKQLEKQEQTHSKASRRQEI TKIRGELKEIETQKTLHKINESR SWFFERINKIDRLLARLIKKKRE KNQIDAIINDKG
10253	40621	A	10314	1	1185	MEDIKRTQKNLSEMKATLAEM KNTLDGINDHGRDSRRKIRKLQ DNGGDDPTGNTQRKKNLINGP SLSVHIGEKRGGRSWAETLTP LQTKALRLGPTTPSARRKCGIV PNLQTRKTEAYRYPDTHPGETP VGTAVLSIQPKLESVIDVRVN MSSFHPEPELQPTQTSVLPDQD ATVAGSTTKFPEEQEARQGRVR ERPATRERPVPGGVSVPLHHI HFLRGPSLPLASLTRITVLEAVV CFFSVWSIVGLSGFHTYLISNQ TTNEDIKGSWSNKRKGENYNP YSYGNIFTNCCVALCGPISPR/ LSHTGQRPTPIECEPHNLV TSA ETLLASKPD/PTEEGTSSPTRRS QQHPPMASPCTGPRSHRV TCTL EKREEEEGVGQRLSPLCKPRL
10254	40622	A	10315	44	302	GLLGPGPPTAC*CGPHCGIH PES SPQSWCLCHSHRSSRAPPLARL SGDRHPGWRTWGGRDARSVA RGQWWCLVEPVLPFSTRSAFW

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10255	40623	A	10316	3	2182	IRDPGKKPVMLFLHGGSYMEG TGNMFDGSLAA YGNVIVATL NYRLGVLGFLSTGDQAAKGN GLLDQIQALRWLSENI AHFGD PERITIFGRYSQPGLSYHIAFGPV VDGDVVPDDPEILMQQGEFLN YDMLIGVNQGEGLKFVEDSAE SED/GAFDFTVSNFVDNLYGYP EGKDVLRETIKFMYTDWADRD NGEMRRKTLLALFTDHQWVAP AVATAKLHADYQSPVYFYTFY HHCQAEGRPEWADAAHGDELP YVFGVPMVGATDLFPCNFSKN DVMLSAVVMTYWTNFAKTGD PNQPVPYDTKFIHTKPNRFEEV VWSKFNSKEKQYLHIGLKPRL WSRFRGVLYQVFHDTICEKEAP KSSLLRKQTQPPKKQSSPAVHL RCTMDPVMMTVSPPPAHRHRR RGSPTCAHCPVAWAPDDE KPHQYPAICSYHWDVPEDWEG FQHTQGTWVPWSQDAPESPPQ TIRFQPTVEERPLKTGIWSELGL RAYVYPVNPPPPSPEAPSHKNG RIVYDARDMRRRLRELTREVE ALSGCYPLASGSSTAEETSKNW VYRSLTGSQKMSQLHRVPFFD QEDPDSYLEEEDNLPFPYPKY RRGWGGFYQRAGLPSNVGLW GHQGGILASLPPPSLYLSPELRC MPKRVEARKCQDLGDSILLLLG SFILLNVWINVVTLLWKHLKSS
10256	40624	B	10317	37	241	
10257	40625	A	10318	2	815	
10258	40626	A	10319	1	943	RAGGQGVG*GWGPPSVPCSVH GGKGL/PPEEGPGQVTHLEFGR GDGLLTPWWPLTGDGRGSA/S LASQRTCSQ*GMWLPAAPSPS HPGPAGTVQSHLHL*GLLGPG PPHCLLMRPTLRDSSRVFTSKL VSVPPQVQVQGPTRKT VWS ASWMENLGRKGCQVCSTWPM VVPGGACTSIWEWEADRVTPG GHRGSSCSHSAAGGANAAPHG PRGRPGGHAAAGGRHSTDGRS SCSPRPDPGAARPQSAVHTDY RSPSLGTFPLAQPFGESKSDQSA PGIRGQKAPLAVARRGQQTPRP RGQARGRGRGTRPR

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10259	40627	A	10320	39	621	SCPEEEESSLLSPGTSWPLHAW ACSAAQVTGRERVVADWPGY HPGGPTAPHWRAGPLSDKTRPS RDVGTWDTGRAGCPPPGRNP GPPDQRKALGVVVTSGSQLG NGTPNSCLSPRQCWIQRLGGSS RTGPPPPGVSPEAAVSCPGHHT LFGLRSGAGKIQG*LLGPGWEL GQAGTEPPLPLAPPPHRS CG
10260	40628	A	10321	1	496	AAATYVQNQSEDCLYLNLVYP TEDGPLTKKRDEATLNPPDTDI RDPGKKPVMLFLHGGSYM EGT GNMFDGSVLAAYGNVIVATLN YRLGVLGFLSTGDQAAKGNYG LLDQIQALRWLSENIAHFGGDP ERITIFGSGAGASCVNLLILSHH SEGLFQKAI AQSGT
10261	40629	A	10322	1	4304	MLPVWFTDNLGAAATYVQNNQ SEDCLYLNLVPTEDGPLTKKR DEATLNPPDTDIRDPGKKPVML FLHGGSYM EGTGNMFDGSVLA AYGNVIVATLN YRLGVLGRYS QPGLSYHIAFGPVVDGDVVPDD PEILMQQGEFLNYDMLIGVNQG EGLKFVEDSAESEDGVSASAFD FTVSNFVDNLYGYPEGKD/DW ADRDNGEMRRKTLLALFTDH QWVAPAVATAKLHADYQSPV YFYTFYHHCQAEGRPEWADAA
10262	40630	A	10323	1	2765	MDVGFSRTTVQTLRSRSHCKNIK QKISQWEGRANGISNPEKWCPK DFGVRYNCHQEIRLKKNP I AER KSKNLDVTSRENVGLDINENTK SHDQSEENENKKHEYDDTHFFK NESESNWVCSRVEIESCKEDV LDPETSLPPGNFYTSQILWKKIE ALPPDKLLNLALEHCD SSEKEL NFRVLDSSYGITKSLENIYSEPE GQECGPSINPLPKPRRTFRYLSE SGVTPYKERNCDK KYCENN SC AQSSLASSQEPE
10263	40631	A	10324	2	597	RWLIPKVMRIYDTQKKMDREA SQAALQKMLTLLMLPPTFGDLL REEYIGDNGDPQTLQAQFQEM MADSMFVIPALQVAHFQCSRA PVYFYEFQHQP SWLKNIRPPHM KADHVKFTEEEELSRKMMKY WANFARNGNPNGEGLPHWPLF DQEEQYLQNLQPAVGRALKA HRLQLWKKALPQKIQELEEPE ERHTEL

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10264	40632	A	10325	2	1766	PGQPLGEQQRVRRQRTETSEPT MRLHRLRARLSAVACGLLLLL VRGQGQDSASPIRTTHTGQVLG SLVHVKGANAGVQTFGLGIPFAK PPLGPLRFAPPEPPESWSGVRDG TTHPAMCLQDLTAVESEFLSQF NMTFPSDSMSSEDCLYLSIYTPA HSHEGSNLPVMVWIHGGALVF GMASLYDGSM LAALENVVVI IQYRLGVLGFFSTGDKHATGN WGYLDQVAALRWVQQNIAHF GGNPDRVTIFGESAGGTSVSSL VVSPISQGLFHGAIMESGVALLP GLIASSADVISTVVANLSACDQ VDSEALVGCLRGKSKEILAIN KPFKMIPGVVDGVFLPRHPQEL LASADFQPVPSIVGVNNNEFGW LIPKVMRIYDTQKEMDREASQA ALQKMLTLLMLPPTFGDLLREE YIGDNGDPQ\TLPKRK\FQKMM ADS\MFVIPALQVAHFQ\CS\RAP VYLPTSSQH\QPSWLKNIRPPH MKADHGDEL PFVFRSFF\GGNY IKFTEEEELSRKMMKYWANF AR\NGNPNGEGLP\HWP\LFDQE EQYLQLNLQLAVG\RALKAHRF VQFWKKALPQKIQ\ELEPEERH
10265	40633	A	10326	2	435	ILAEFGSLHLEFLHLELSEGNQV FAEKVRNIRKVLRIEKPFGLYP NFLSPVSGNWVQHHSVGGGLG DSFYEYLIKSWLMSGKTDMEA KNMYYEALET/HKLGPEAFWF NSGREAVATQLSESYILRPEV VESYMYLWRQTHNTK
10266	40634	A	10327	3	583	

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10267	40635	A	10328	1	1299	MHLNQLPPILSRLGAVGFFGSM KAHLVSVSRQVRNIRKVLRKIE KPFGLYPNFLSPVSGNWVQLPI PGSVAAGEMPASYPYRHRPE VRRVCEALPHHVSVGGLGDSF YEYLIKSWLMSGKTDMEAKN MYEAELEAIETYLLNVSPGGLT YIAEWRGGILDHKMGHLACFS GGMIALGAEDAKEEKRAHYRE LAVQITKTCYESYAR\SDTKLGP EAFWFNSGREAVATQLSEE/YT YILRPEVVESYMYLWRQTHNP\ SYR\EWGWEVVLAEKYCRTE AGFSGDSKTCYSRHPQPRTTSR QSFFLAETLNRCLVSACNGPDT GLEARDTAESSETVISPAVKGSR GEKAMVRETDKPAKCIGKKSK NGKSDLKAASKMDAQFRSLCF EEVTPLWFEEKVLEMNGPASPSV SPGGLSLEVWSLVMWHKDARP
10268	40636	C	10329	186	401	
10269	40637	A	10330	194	482	
10270	40638	A	10331	224	495	
10271	40639	B	10332	138	1810	
10272	40640	A	10333	1	1351	MGGVGEPPGREGPAQPGAPLPT FCWEQIRAHQPGDKWLVIER RVYDISRWAQRHPGGSRLIGHH GAEDATDAFRAFHQDLNFVRK FLQPLLIGELAPEEPSQDGPLNA QLVEDFRALHQAEDMKLFDA SPTFFAFLLGHILAMEVLAWLLI YLALGP\GWVPSALAAFILAIQ AQSWCLQHDLGHASIFKKSWW NHVAQKFVMGQLKGFSAHWW NFRHF\QHHAKPNIFHKDPDVT VAPVLLGESSVEYGKKRRYL PYNQQHLYFFLIGPPLTLVNFE VENLAYMLVCMQWADLLWA ASFYARFLSLSYLPFYGVPGVL LFFVAVRV\ES\HWFVWITQM NHIPKEIGHEKHRDWSSQLAA TCNVEPS\LFTNWFSGHLNFQIE HHLFPRMPRH\N\SPVAPL\KS LCAK\HGLSYE\VKPFL\TALVDI VRSLKK\SGDIVLDAYLHQ
10273	40641	A	10334	43	399	

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10274	40642	A	10335	1	2229	FLKVCPQNNAETFGCLGTG\EK GDRGNQTQK\PLHYKSWSLFHR SCPRDFYGSKVGFQQKENG G\GES\IYGGFFEDGVSLVKDH\ KEFLLSMANRGKDTNGSQFFIT TKPTPHLDGHHVVFQGV\SGQ EVVREIENQKTDAAASKPFAEVR ILSC\GELIPKSKVKKEKKRHK SSSSSSSSSDSDSSRY\QSSSDS SDSESA TEESKSKRKKKHKRNS RKHKKEKKKSKSKKSASSES EAEN/LLEAQPPVLLFRPEEIP IPENRFLMRK\SPKADEKERKN RERERERECNPPNSQPASYQRR LLVTRSGRK\LKGRGPRRYRTPS RSRSDLFRRS\ETPHWRQEM QRA\QRMVSSGER\WIKGDKS ELNEIKENQRSPVRVKERKITD HRNVSESPNRKNEKEKKVKDH KSNSKERDIRNSEKEDKYKNK VKKRAKSKSRKSKEKSKSKER DSK\HNRNEEKRMRFKELKGR DHENVKEKEKQSDSKGKDQER SRSKEKSKQLESKSNEHDHKS KEKDRRAQSRRECDITKGKHS YNSRTRE\RSRRRDSSSRVRSRP HDRDRSMK\EYHRYRDQVYS RRVRSRSRERRTPGRSRSRDR RRRRRDSRSEEDSQSRNKDK YRNQESKSSHRKENSESEKRM YSKSRDHNSNNSREKKADRD QSPFSKIQSSQDDELKSSMLK
10275	40643	A	10336	3	3366	

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10276	40644	A	10337	3	2431	GCLQELSVLFARGEPRGPCHNL LHYMLALIGVPEVFWAFLFHCS LGLEEEKLAPLIKGEKIVWLRS SFYFQHCLVDKSTLLPSSSVSLG IFHEEKNSGEFPIFAKAVRLALV PLRYVKLEDRDNWISVDSVTSE IKLAKLPDFESRYVQNGTYTVK IVAISEDYPRKTITGTVLINVEDI NDNCPTLIEPVQTICHDAEYVN VTAEDLDGHPNSGPFSSVIDKP PGMAEKWKIARQUESTSVLLQQ SEKKLGRSEIQFLISDNQGFSCP EKQVLTLTVCECLHGS\GCREA QHDSYVGLGPAAIALMILAFLL LLLVPLLLLMCHCGKGAKGFTP IPGTIEMLHPWNNNEGAPPEDKV VPSFLPVDQGGSLVGRNGVGG MAKEATMKRKVSSASIVKGQH EMSEMDGRWEEHRSLLSGRAT QFTGATGA\MTTETTITARATG ASRDVAGAQA\AAVALNEEFLK NYFTDKAASYTEEDENHTAKD CLLVYSQEETESLNASIGCCSFI EGELDDRFLDDLGLKFKTLAEV CLGQKIDINKEIEQRQKPATETS MNTASHSLCEQTMVNSENTYS SGSSFPVPKSLQEANA\KVTQEI VTERS\SSRQAQKVATPLPDPM ASRNVIATETSYVTGSTMPPTT VILGPSQPQSLIVTERVYAPAST LVDQPYANEGTVVVTERVIQPH GGGSNPLEGTQHLQDVPYVME
10277	40645	A	10338	5	354	RPRLTSQDIKKPDC/DGEDAIGR GFEC DGLHLEKIVHFALHLEKN VNQSLLELHKLATDKNDPHLC DFIETHYLNEQVKA\KELGDHV TNMHEMGAPDSGVAEYLFDKH TLGDSDNES

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10278	40646	A	10339	1	2024	GEALMYHTHFSELLDEFSQNVL GQLNDPFLSEKSVSMEVEPSP TSPAPLIQAEHSYSLCEEPRAS PFTHITTSDFSNDDEVESEK WY LSTDFPSTSIKTEPITDEPPGLV PSVTLTITAISTPLEKEEPLEIEQ WGLIPRARPLFPKIKLEPHEVDQ FLNFSPKEAKHLHIFPSWAACT CGSSGNSAIRILAYSLALRVPT ETKKPRDLFGKTGREKGKEETS REKLYVAERERKAPVDHLHLPP TPPSSHGSDSEGSLSPNRLHPF SLPQTHSPSRAAPRAPALSSSP LLTAPHKLQSGPLVLTEEEKR TLIAEGYPIPTKLPLSKSEEKAL KKIRRKIKNKISAQESRRKKKE YMDSLEKKVESCSTENLELRKK VEVLENTNRASHGELVIGVLGK GRRWDPLLTSFHAGDQCLGSV QGWAGECTPRQLDGSRTTLISE EDPGSPMGGEALGAIVSYA WRGREALHASRVGAVIQAPIA AGSDICLSDIRESATSSQTNISVT RTLLQQLQKLQTLVMGKVSRT CKLAGTQTGTCLMVVVLCAV AFGSFFQGYGPYP SATKMALPS QHSLQEPYTASVVRNRNLLIYE EHSPPESSSPGSAGELGGWDR GSSLLRVSGLESRPDVLPHFIIS NETSLEKSVLLELQQHLVSAKL
10279	40647	A	10340	1	489	

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10280	40648	A	10341	1	2665	MESTLTLATEQPVKKNTLKKY KIACIVLLALLVIMSLGLGLGLG LRKLEKQGSCRKKCFDASFRGL ENCRCDVACKDRGDCCWDFED TCVESTRIWMCNKFRGETRLE ASLCSCSDDCLQKKDCCADYK SVCQGETSWLENCDTAQQSQ CPEGFDLPPVILFSMDGFRAEYL YTWDTLMPNINKLKTCGIHSKY MRAMYPTKTFPNHYTIVTGLYP ESHGIIDNNMYDVNLNKNFSL SKEQNNPAWWHGQPMWLTA MYQGLKAATYFWPGSEVAING SFPSIYMPYNGSVPFEEIRSTLL KWLDLPKAERPRFYTMYPEEP DSSGHAGGPVSARVIKALQVV DHAFGMLMEGLKQRNLHNCV NIILLADHGMDQTYCNKMEYM TDYFPRINFFYMYEGPAPRIRA HNIPHDFFSFNSEEIVRNLSCK PDQHFKPYLTPDLKRLHYAKN VRIDKVHLFVDQQWLAVRSKS NTNCGGNGHGYNNEFRSMEAI FLAHGPSFKEKTEVEPFENIEVY NLMCDLLRIQPAPNNGTHGSLN HLLKVPFYEP SHAEEVSKFSVC GFANPLPTESLDCFCPHLQNST QLEQVNQMLNLTQEEITATVK VNLPFGRPRVLQKNVDHCLLY HREYVSGFGKAMRMPMWSSY TVPQLGDTSPLPPTVPDCLRAD VRVPPSESQKCSFY LADKNITH
10281	40649	A	10342	590	900	PLYSATVPSAFCSGQ/LVPHIKS FCRLNIFNR*LIELRHLVFFVLLL FRDLQHIMACNMRDAVRFFVC FLVIFFREGLSRSSCQKCSRKSQ NCGLFYNFFDVHVH
10282	40650	A	10343	1	804	
10283	40651	A	10344	207	299	
10284	40652	A	10345	738	1007	EDASCDEGSTARAVHSMEPAG ARNRQKPHPFQVRGAEPHPW* RCSHPAVAVDPGIHALSGKPLC SWRLGSDLPTVWPLPTDPPVS VS
10285	40653	A	10346	150	509	QLPAGSGEGPYHLEGQLSYCHR GGEKALAAALLSSPTSKTRSPSEP DPEQDEQKLRFCRRLHYGQQP RSPVEIRLQHVAIAIYQTHHAYD *FVQLYNQHVAQPVLEFPYPGA VVALLSRHL

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10286	40654	A	10347	120	620	SYVKYFPHQPAQKYFQQIHSAILHNADHVHKLHLLGDNRYPIWIMQPSAHHPARQPEHDNHFR*VQQLYDGDSHRQFL*HQILFDRTPVSVVDQSVEKKG*DHPVRPQ*AAPGHVHYLTIPERSSQHYHPGALLQE*TSHPDHIQARGSILASVLSGSDRWRRTYRCL
10287	40655	A	10348	599	1185	MCQNLMTHSKSTEWKITKRFLTETEKHIRTFFSSLSMKAIHHPA/HNHTLRDPHYVEDKGHKYLVFEANTGTENGYQGEESLFNKAYYGGGTNFFRKESQKLQQSAKKRDAELANGALGIIELNNDYTSEKSNEAADHFKHVPQAKGNNVVI TSYMTNRGFFEDKKATFAPSFLMNIKGNKTSVVKNSILEQGQLT
10288	40656	B	10349	1	975	
10289	40657	A	10350	1	1080	
10290	40658	B	10351	58	1128	
10291	40659	B	10352	1	1029	
10292	40660	A	10353	10	108	
10293	40661	B	10354	208	2237	
10294	40662	A	10355	1	1153	
10295	40663	A	10356	1026	1274	LHIEKSNEAADHFKHVACHR*R*ACTCHCNPWFPRPLPQPDCTSATVEPLYPIRSRGRTRKPAEGSRAPGCCCCQRP GK
10296	40664	A	10357	434	1128	MCQNLMTHSKSTEWKITKRFLTETEKHIRTFFSSLSMKAIHHPA/HNHTLRDPHYVEDKGHKYLVFEANTGTENGYQGEESLFNKAYYGGGTNFFRKESQKLQQSAKKRDAELANGALGIIELNNDYTLLKVMKPLITSNTVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLGYVSNSLTGPYKPLNKTGLVLQMGLDPNDVTFTYS HFAVPQA KSNNVVNYGA
10297	40665	A	10358	300	491	SYVKYFPHQPAQKYFQQIHSAILHNADHVHKLHLLGDNRYPIWIMQPSAHHPARQPEHDNHFR*VQQLYDGDSHRQFL*HQPAQKYFQQIHSAILHNADHVHKLHLLGDNRYPIWIMQPSAHHPARQPEHDNHFR
10298	40666	B	10359	1	1226	
10299	40667	A	10360	1369	1548	
10300	40668	A	10361	1	1365	

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10301	40669	A	10362	1560	2384	MCQILMTHSKSTEWIITKRFLTE TEKHIRTFSSLSMKAIHHPA/HNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYYGG GTNFFRKESQKLQQSAKKRDA ELANGALGIIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLF TDSRGSKMTIDGINSN DIYMLGYVSNSLTGPYKPLNKT GLVLQMGLDPNDVTFTYSHFA VPQAKGNNVVITSYMTTRGFFE DKKATKAPSFLMNIKGNKASV VKNSILEQGGQLAVN
10302	40670	B	10363	783	881	
10303	40671	A	10364	1	1359	
10304	40672	A	10365	1512	2010	ENFPHQPAQKYFQQIHSAILH NADHVHKHLLGDNRYPIWIMQ PSAHHPARQPEHDNHR*VQQL YDGD SHRQFL*HQILFDRTPVS VDQSVEKKKG*DHPVRPQ*AAP GHVHYLTIPERSSQHYHPGALQ E*TSHPDHIQAK*WHYR\GHYS YARN*RIHHRGSWCR
10305	40673	A	10366	62	368	TGARRVPWPRRGARLRGRARA RDESGSAGDQPPSPFPWWGW RWVTTAASPANLWPSVARSTM VDRAINL/FFLKMKGD LALTED KREQAQNEQSAWKFTPGR
10306	40674	A	10367	2	305	CTINNPKSF/HGVGFKQHAPQA LTEIQKFAMKEMGTPDVRIDTR LIKAVWAKGIRNVYPYRIRVRLS RKRNEDEDSPNKLYTLVTYVP VTTFKNLQTVNVN DEN
10307	40675	A	10368	129	283	HLILLFLKHKYCFAREEEEE*R GVGEEEEEEEEEEEEEEEEEEI FKSIVY
10308	40676	A	10369	777	1755	DIWDQTEHQSSGPWSYGTSTDP EPTSDLAIVFEKRGGE EEEEE KEEEEGR\EEEEKEEEE\GRRR EEEEEEEEEEEE\GRRAQEEEE KKEEEEEEEEEEWCLGEEESQPG HAEVPSPHKMGALTLRVEGV KEQEAKLLRSSDLMKGDFSSTS QHPPQCSKRTNSESNA DAKSKK KERPIMTFRQRKTFRIRILPLPQ GRIAGSNKLSAKLCTDGRGAG DVGVL TNVMLKRLHFTIDHFLF KIIQMSPSASWNLWSLLDQDSL KCQICLEGYAQGGKPDVQLLPP RLTADWKGHRWGQMMGLDE KLTPSSVMVT SVALFWFEVSAQ

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10309	40677	A	10370	1	444	
10310	40678	A	10371	1	3799	MNRQLSKEDIQMANKHEKML NITNDQGNANQNHNAIQPYSC KNGHNRKIDVSMNMVNREHFY TAVHKASDLSFKPTSEKDLDTK LQANFPNLVKAPDKARICFCGK PYQPYVQGSPNSPVEIVENEPSQ LLHFLCVGSSKEEIDLGNPKGS QHTGLGHSMGKCNYFYLPILLV HGWKSHLHPCVASMKVAGTQ RTQDQDEAQEKEKRDKRKAEA LVAALQTYKTQNPQGAPANCY KCGKLGHFKKDCHSSKRKPL
10311	40679	A	10372	1	990	MTQKKNQTEQKEQKNEQKKQ HNERKEHKKKQTEYKTHETNR PRKTERAEHDEQKRENEGKRR RHKKRT/RERKKTNEETETRKG REKPEQARQARKEKQKRQGE RQKEEKKRKNNRQENEEEEAN EQDRREQKEETRKRGRPRKRRE HKEEEGRRRERKKRKRKTKEKG RRAQKERREEEQQRRRRRR GKRKKNESEDEEDKASNKHQR QERERQKRKGAEARRPAETG RRRKRKRQRKA\AKQRQERQ GDGVLPCAPWTAHPRQPSQCW SARAPGGSAPRRRYLLTGQA NGSLAMWDLTTAIGRPRPGPCR WPDGARADGTAGTL
10312	40680	A	10373	99	1365	KEAEGRALARLLGPSEERFAAH EGMRPMAVFTTRQGHIFTTGFT RMSQRELGLWDPNNFEPPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRCG GPCPGAPLNRLILQGDSSIRYFEI TDEPPFVHYLNTFSSKEPQRGM GFMPKRGLDVSKEIARFYKLH ERKCEPIIMTV\PRKVRAWDRD LGRRSDAVPRIRQGPEPALEAD EWLSGQGRNPNCSFSLRDGYC CPPTHRLRVTKRNILDVRRPS GPRRKPSRPATPPCRSSTPLETL LEEIKPLRERVQAQEQRITALEN MLCELVDGPHYPRAPGRASGL PTDPFGGAVRRACVPVPLVPL ARAVRTLPLRYASSIAALVERM KAHMWAKGRATRDATAKRCS PMAQTTTQHLHVPCDREDES WNYICCSS

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10313	40681	A	10374	1	361	MINPNPERSDDL VFWGLFRAG GMWSAIIAPVMILLVGILLPLGL FPGDALSYERVLAFAQSFGRV FLFLMIVLPLWCGLHRMHAM HDLKIHVPAGKWW\FYGLAAIL TVVTLIGVVTI
10314	40682	B	10375	70	256	
10315	40683	A	10376	224	414	LRWRSLPAFQSGNLSVPAALM NRANARGEAVCVLGRSSRFLA H*LAALGRSAAASGISSLKGG
10316	40684	A	10377	439	595	RAISCCPSHLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE SGQ*AQRN
10317	40685	A	10378	1	391	FSSGTVPGDRPDREFIGDTLME RRNRRTGRTEKARIWETANTL AITMLMSTAMPAAAADGVTFS VPVTPHTFRHSYAMHMLYAIGI PLKGLQSLMGHKCIRSTGRLPQ RFLGLEWGLPGHPGGRLAMAE
10318	40686	A	10379	278	694	GHRSP LAIAGCPTIQNGAGPQC AAITRVRAARWCGYPPGSGIPTI PEDSFMLYPRALTTHQTGFSPA WGKPSVDRLLATLSGPGGEGQ YSCCPSHLVKKKTTLAPNTQTA SPRALADSLMQLARQVSRLESG Q*AQRN
10319	40687	A	10380	2	371	SVQVFIRDKLMERRNRRTGRTE KARIWEVTDRTVRTCDCGGGL PAAAADGVTFFCSAPPNIRFR\H SYA\MHMLYAR*YPLKGLLSPI G\HKCIRSTGRLPQRFLGLEWG LPGHPPGRLAMAEV
10320	40688	A	10381	276	508	
10321	40689	A	10382	464	763	
10322	40690	A	10383	1	715	MQHLSHGSRRHILISENFRGCQ DQAVSQTLTLTRPPLVSKEASFF LLPFDLHVLGLPPAFNLSHDQT LQFKSLTLVTSVRVPLEVARPG LSMLGLLRFMSSLLAVGDMGQ GDQVEFQDTKGNSEGRASSQPP MTPLTPTRVRRCPGGPTWGAK AEGVGRAEAATADPGSEGDVV LSRTGLLLAGLLHYFRGRHLE EIMYNENTRRSQLLMLFDKFRS VLV\VTTHEDPVI\VFQALLP
10323	40691	B	10384	72	195	
10324	40692	A	10385	1	2331	

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10325	40693	A	10386	1	706	MTTSRSDTRSQDDPSAHLASPK LPQRLPKDLSEAQVERLLQAPLI DQPLELRDKAMLEVLYATG\LR VSELVGLTMSDISLRQGVVRI GKGNKERLVPLGEEAIVHWLET YLEHGRPWLLNGVPINVLFPSQ RAQQITRQALWRRINHYDELA GIDSEKLSPHVVRHAFATYFAG SGGCIADFCGGSCAGSSAAESC LWFAGTGLYLHHA WVSGVWS REC SGAAWRDRRDVGGGE
10326	40694	A	10387	39	209	EPGTYVYNETDKSHSPCRPCVL LS**GIYLSV*R*NGITYGALL AHIPNKFQVDY
10327	40695	A	10388	2	930	AWTHAGILLKHKYSFLVGCASI SDVIAQVVFVAILLHSHLECRE PLLIPILSLYMGALVRCTTLCL GYYKNIHDIIPDRSGPELWGDA TIRKMLSFWWPLALILATQRIR RPIVNLFVSRHLGGSSAATEAV A\LTATYPVVHMPYGWLTEIR AVYPAFDKNNPSNKL VSTSNTV TAAHIKKFTFVCMA\SLTLCFV MFWDTQRV*GKSLIDIIGSLW PLQELCV\PLWIFSFFPVPTV RAHLTGWLMTLAKKTFVLAPSS \VLR IIVLIASLVVLP\YLG VHG ATLG\VGFL\AGFCGENSTMG
10328	40696	A	10389	1	1389	GDATIRKMLSFWWPLALILATQ RISRPIVNLFVSRDLGGSSAATE AVAILTATYPVGHMPYGWLTEI RAVYPAFDKNNPSNKL VSTSNT VTAHIKKFTFVCMA\SLTLKD SVQKPDISLTGRLVQTLPTMR HQRGESKDVAPLASWLSEPSTS SEASQTSSKLTINSQGEGKAKQ KLECGTLSIVLRSCEKNQERIKA AEKRNRSWTTL CGLGAWRPLL FELPVIVQTPDQTNRFQFRYP KTQSGLC\FFHSFDLLTLEAFV KVWFPGCLLILIEYASSKNRKS KMLQNLKLLSADMTLKL CFVM FWTPNVSEKILIDI\GVDFAF LCVVPLRIFSFFPVPTVRAHLT G\FLMTLNY\TFVLAPSSVLR IIV PHRPASWVLPYLVGVHGATLG G\SLLAGFVGESTMVA\LATCY VYRKQKKK MENESATEGE\DS AMTDMPPTTEEVTDIV\EMREEN

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10329	40697	A	10390	57	556	TGRCTCHDRHYWYSPVERIAY NVEAAR\VEQRTDLDKLVIEME TNGTIDPEEAIRRAATILAEQLE AFVDLRDVRQPEVKKEKPEFDP ILLRPVDDLELTVRSANCLKAE AIHYIGDLVQRTEVELLKTPNL GKKSLTEIKDVLASRGLSLGMR LENWPPASIADE
10330	40698	A	10391	536	787	GRD*PDYAENAHEVMPPVVID ASDMLLAITQAGRMLMFPVSD LPQLSKGKGNKIINIPSAEAARG EDGLAQLYVLPQSTLTIH
10331	40699	B	10392	868	900	
10332	40700	A	10393	1	278	MNPQEANYAYLRG/EVELVRLP DAEGRIAAE/GALPYPPGVLALE EGI/NLLPGFAPELQGVYIEE/HD GSGIIMLPTKLAEVGTI
10333	40701	A	10394	1	811	
10334	40702	A	10395	1	682	
10335	40703	A	10396	442	546	
10336	40704	C	10397	1	1776	
10337	40705	A	10398	2	1354	YFSPAAMKALDLLIKWTRSDQ NLGGCNTGLIRPISPIVLIYKLVI GEQMIDVLGPEKRRRTTQEKI AIVQQSFEPGMTVSLVARQHG VAASQLFLWRKQYQEGSLTAV AAGEQVVPASELAAAMKQIKE LQRLLGKKTMEHELLKEAVEY GRAKKWIAHAPLLPGDGDCTS FSDEPMTGWMAAAVVTLMIR MCFSVYTMLSESCQRMVIVGY GRR\PDRQNLMIQGSKP/SIFRQF C/PDFEHLQEPYE/LLWE/MYGN RGYLQLVSFMQKFIDQSIFANT QYDPSRFPSPGKVPIQQLLKDLL TAYKFGVKTLYYQNTRDGAED AQDDLVPISQDDGCESGACLIR RASVASGSGCRMQRERLILATA RICRPDKTRQRRIRHRMRKMP YPALNSQQDTLMAYTTFSQTK NDQLKEPMFFGQPVNVARYDQ QKYDIFEKLIKQLFFLLASGRS
10338	40706	C	10399	1	1269	

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10339	40707	A	10400	1	1909	MGFHHVAQAGFELLISDDLPA ASQTARITAREARAPVEENKKA QLERDKQLSEQQKQAALAKE KAQVKQLIEMNRITANGDIGF NFTDGNLIKKIFVDKLTQAQLIN GRLAIARLLVDNNSEGEYAIIPA SVADKIAQRDASSIVLHSALSA EEQDEDDPYADFKVPDDLWMP TVYGRSVDRIIRSRRIQSCAM PDATLCASYQAYGLRAKHPSFS SQGVPHCPVDVTLKIASEAPSPI VGGTLPVPMTSQPSVTSMQLL LDLDTIPNEPLHYDWEALRESI KTHGLRNSTLSALMPSETSSQIS NATNGIEPPRGYVSIKASKDGIL RQVVPDYEHLHDAYELLWEMP GNDGYLQLVGIMQKFIDQSISA NTNYDPSRFPSPGKVPMQQLLK DLLTAYKFGVKTLYYQNTRDG AEDAQDDLVPISIQDDGCEGA CLIRRASVASGSGCRMQRERLI RPTARICRPDKTRQRRIRHRMR RVLPGRATRRDFPSLEAGYQW LPGRGLVIEPQAQVMYQGVQQ DDCTAASRARVSQSQDDIQTR LGLHSEWRTAVHVIPTLDLNDY HDPHSTEIEEDGSTISDDAVKQR GEIKVGVTGNISQVRSLRGSVA WQKGSDDFAQTAGFLSMTVK
10340	40708	B	10401	1	1329	
10341	40709	A	10402	1419	1788	ALTSVLPRPSVHW*SPKPRNVD WHIGRGVAIIMQKSGIPDIDQA NCMIKLESDGTFIVHSGGADIG TGLDTVVTKLAAEVLHCPPQD VHVISGDTDHAFDKGAYASS GTCFSGNAARLAAEN
10342	40710	A	10403	73	477	SMFPRIIPFGY/WHI/GSRVAIICQ K/SGIPDIDQSNLHDQLESHGTFI VHSG/GFDYGTGLDTV/VLTKL AAEV/LHCPPQDVHVISGDTDH/ ALFDKGAYASSGTCFSG/NAAR LAAVNPRALAYSYGGGGARV CIWGGWGRR

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SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10343	40711	A	10404	1	756	MSIAYQEIPQNERLRLSDSSITS VVEYLLAVVARSVYTSPDMAIF REHHSYMSLSMAACRKIRPCPQ ELPRSIPHMISAMWSQSAPDHV VQHEREQQSGFGDGTESHSTSD SNTEVRQNCSPPIGGVRNHRAL RGHQPAELEPENILKLLMVAE RKAHKGWYYSGDLCRMDEAG YIKITGRKKDIIVRGENISSREV EDILLQHPKIPNAICMGAMSDD RLGERSCAYV\VLKAPHHSLSL EEVLCWRGC
10344	40712	A	10405	252	1245	GSRILPGASITRS\LEFIAGQAVK FNPLLPVSLVKRNTTLAPTHT ASPRALADSLMQLARQVSRLD SGQRSVVFVRWSRRSIIVDSA GLITTQRALGQSDMYRGSLPISE LRIIGPRHLRGVLRVRLCPFSE PMLVECNPLLPSSLIIREPSLEPT LRFASRIALPDSTVLQIFSGVLP LSSGQAYIQFTYSETPRSTPREA NSAHILSVHQWKCGHIVMAAR VKVGYPQWTPISLSAGLSAVLY KPVERGGRCSHSCSTALSPQGF LSSLLRFISEGVFKSFTDKQMLR DFVTTRPALIVLLWQPLNVEGT SSTSHCIIMPTCNDHRD
10345	40713	A	10406	269	432	
10346	40714	A	10407	332	933	RVSRGRKVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKP DGSIVSLKIDWIIERYQLPQSY QRMPDFRRRFLQDFRLLGQ\TS VDRLL\QLSQGQAVKGNQLLPV SLVKRKTTLAPNTQTA\SPRAL ADSLMQLARQVSRLESQ* AQ
10347	40715	A	10408	1	531	MRWKIDLARISKEIIDFYITQGV NRIGFIAGEDEPGKADIREVAFA EYGRLLKQVVREEDIWRGGFSSS SGYELAK\QILARKDYPKPLFV ASDSIAIGVLRRAIHERGLNIPQDI SLISVNDIPTARFSFPPLSTVRIH SEMMGSQGVNLVYEKAPDGR ALPLLVFVPSKLLKLRGTTR
10348	40716	A	10409	1	1059	
10349	40717	A	10410	2187	2429	

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10350	40718	A	10411	1	835	MRPFGDYDPGGIDDLKISFSVP AAGVGPHFDQYDVFIQGTERR RWRVGEKLQMKQHCPHDL QVDPFEAIIDEELEPGDILYIPPG FPHEGYALENAMNYSVGFRAP NTRELISGLPDYVLQRELGGNY YSDPDVPPRAHPADVLPQEMD KLREMMLELSTHPDPFKQWLG EFISQSRHDLDIAPDPYPQDE FSDALNQGVKVLGALGGLRVLR MGDAVYPNGEKMDSPRPALD ALASTIALTAKNFGDALEDPSF LAMLALVNSGYWFFEG
10351	40719	A	10412	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
10352	40720	A	10413	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDPAIPLL
10353	40721	A	10414	342	528	
10354	40722	B	10415	32	587	
10355	40723	A	10416	1	2141	
10356	40724	A	10417	1	748	
10357	40725	A	10418	321	411	RNRDRYKQWKQDFFHDSYNR QRCGCWRLYRRHHR*CRRYRR QQPHLCRLYES*KKSCFHCLYR SRF/RLRVKYPRDMYSCLGTFL RSPVAIRIPLSRNQVKR
10358	40726	A	10419	1	2235	

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10359	40727	A	10420	1	1884	MGKDFMTKTPKAMATKAKID KWDVIKLSFCTAKETTIRVNR INKIDKPLARLIKKKREKNQIDT IKNDKGDITTDPTIEIQTIREYY KHLTYTNKLENLQEMDKFLDTY TLPRLNQEEVETLNRPTGSEIV AIMNSLPTKKSPGPDGFTAIFY QRYKEELIILIPK/PGQDTTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIHHDQVGFIPGMQG WFNIRKSINVIQHINRAKDKNH MTISIDAEKAFDKIQQPFMLKTL NKLIGIDGTYFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLNFIVLEVLAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPTVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNKRQTESQ IMSELPFTIASKRIKYLGIQLPRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VTYRFNAIPIKLPMTFFTELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNVRPKTI
10360	40728	A	10421	1	822	
10361	40729	A	10422	2738	2949	
10362	40730	A	10423	1	1134	
10363	40731	A	10424	1	2118	
10364	40732	A	10425	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10365	40733	A	10426	2	1624	
10366	40734	B	10427	1	3690	
10367	40735	A	10428	1	1056	
10368	40736	B	10429	1	2265	
10369	40737	A	10430	1	2037	
10370	40738	A	10431	1	2406	
10371	40739	B	10432	670	2568	
10372	40740	A	10433	3	4072	
10373	40741	A	10434	1	3171	
10374	40742	A	10435	1	1542	
10375	40743	A	10436	1	1008	
10376	40744	A	10437	1	2241	
10377	40745	B	10438	1	2682	

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10378	40746	A	10439	644	949	MRKPTLGRTYPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10379	40747	A	10440	1	1088	MARKDIQVLIIGTYEYYLVKGE KVLTLIAIKLVKWSGYPGLC LPEYHLGEVEGEDDMEVTAMD GRCLEVKGQSERLQVADQECV GDGSGRLCPFDRCECEQRLQLV RPGLCNPRAIALTTKQSPSPNI KRLVIGEQMIDVLGPEKRRRRT TQEKIAIVQSFEPGMTVSLVA RQHGVAASQEGSLTAVDAGEQ VVPASELAAAMKQIKELQRL GKKTMEHELLKEAVEYGRAKK WIAHAPLLPGDGERTDDWMDG RRSRHTDDTDVL*SASWRQQV QRQEQPVLRRRQQ*DFLGLWL LHHVAGQRGRPSSPVQSSAEQL RSFPVWYAVCVSPALRHQSSVL
10380	40748	A	10441	1	2781	MGKKQNRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERSVMEDEMNMEN DGENGTKLENTLQDIIQENFPN LARQANVQIQEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTIKIYAPNTGAP RFTKQVLSDLQRDL
10381	40749	A	10442	1	2445	
10382	40750	A	10443	1	1428	
10383	40751	A	10444	1	2478	

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10384	40752	A	10445	1	1746	METQKTLQKINESRSWFFKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDTYTL PRLNQEEAESLNKPITGPEIEAI NSLPTKKIPGPDGFTAIFYQRY KEELQHIKKLIHHDQVGFIPGM QGWFNIHKLINVIQYINRTKDK NHMIISIDAEKASDKIQPFMLK TLNKLIGDGYLKIIRAIYDKPT ANIILNGQKLEAFPLKTGTROG CLLSPLLFNIVLEVLARAIQEK EKKCIRLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGILT RDVKDLFKENYKPLLNEIKEDT NKWKNIPCSWIGRINIMKMAM LPKVIYRFDAIPIKLPMFTFFTELE KTTLKFIWNQKRARIAKSILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPDKNKQWG KDSL FNKWCWEIWLAI GRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKTEESLGVQDISMGKKFTS
10385	40753	A	10446	2	541	
10386	40754	B	10447	1	1533	
10387	40755	A	10448	753	1468	LVTSYSLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRS LICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSCLGTF LRSPVAIRIPLSRNQVKR
10388	40756	A	10449	753	1468	LVTSYSLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRS LICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSCLGTF LRSPVAIRIPLSRNQVKR

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10389	40757	A	10450	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10390	40758	A	10451	753	1468	LVTSYSLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R\WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVKEILLPLL VSITVSLRVKYPRDMYSLGTF LRSPVAIRIPLSRNQVKR
10391	40759	B	10452	1	2259	
10392	40760	B	10453	1	684	
10393	40761	A	10454	1	1419	
10394	40762	B	10455	1	462	
10395	40763	B	10456	1	915	
10396	40764	B	10457	1	1659	
10397	40765	A	10458	1	1659	
10398	40766	A	10459	1	1224	MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYPGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVERJNIVKM AILPKTAKNGPVLPLHSEEKIP FN\FH*LFR*TITATKA*QKRR* MCQNLMT\QNQRSGRSQIYF* RRRKNISDRSAVYR*RQLYIRR QPYAERPSHVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFCKESQKLQQSAKKR DAELANGALGIIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLF\TDSRGSKMTIDGI LPISDPTIKQDFRLLGQTSVDRL LQLSQGQAVKGNQLLPVSLVK RKTTLAPNTQTASPRALADSLM QLARQVSRLESGQ

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10399	40767	A	10460	1	2241	MEDEMNMKQEEKFREKRIKR NEQTLQEIWDYVKRPNLHLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRMPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKDRSMRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEIITNYLSDHSAIKLE LRIKNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDAFKA/EIQTIIK EYYKHLIYANKLENLEEMDKFL DTYTLPRNLNQEEVESLNRPIG AEIVAIINSLPTKKSPGPDGFTA EFYQRYKEELVPFLKLFQSIEK QGILPNSFYEASTILIPKGRD TT EKENFRPISLMNIDAKILNKILA KRIQQHIKKLIHHDQVGFI PGM QGWFNIHKSINVIQHINRAKDK NHMIISIDAEKAFDKIQRFML KTLNKLIGDGYFKIIRAIYDKP TANIILNGQKLEAIPKAGTRQG CPLSPLLFNIVLEVLRVIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVTAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIMKMAIL PKVIYRFNAIPIKLPMTFFTELE KTK\FIWNQKSAHITKGILSQKN
10400	40768	B	10461	1	1254	
10401	40769	A	10462	551	868	SIQHWSRISSRLVYRSKAVAAA LLPMNCSLWSTQAGFLPRFG*R *TRHLSTIEPEDYNLLFRRVSLK LSVWLPTWQSKSNGWSQKCL WMHLKFDSLNALLPPTGF
10402	40770	A	10463	1	2985	MEDEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTKVEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFTTCICDDAEDLQSPSTA GPWFGVLYTKGGPYQPQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVLLDGFTAEFYRRYKEELV PFLKLFQSIEKEG
10403	40771	B	10464	1	2277	

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10404	40772	A	10465	1	1064	
10405	40773	B	10466	1	1827	
10406	40774	A	10467	1186	1208	ATKMOVRLSVAALVQRMKEFCA AKFPAVITCWWSVWAQSA*WR *CWRKTKI
10407	40775	B	10468	1	1992	
10408	40776	A	10469	1488	1920	RVRVTAVITERDCVSRSRWTAV IVRHCTGRSLPAASTVKQYRTS CWERWN/CRFGNDLPSSPVEWL TDN/EFMLPG**NTPVRPDVGLE PT*TRAACQESRCN/RLTPGIVL EIIGVWMQRWSLECLRAIPCIFG WLPRVVGEESGA
10409	40777	A	10470	1	1659	
10410	40778	A	10471	1	987	
10411	40779	A	10472	1	1278	
10412	40780	B	10473	1	1556	
10413	40781	A	10474	1	1905	
10414	40782	A	10475	644	949	MRKPTLGRTYPSRPPSPAAARG ASRAALGPGHGLETAKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10415	40783	A	10476	1	1217	
10416	40784	A	10477	83	1134	
10417	40785	A	10478	2450	2607	

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10418	40786	A	10479	1	2604	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQVDDDHQGLQGS AALTSLSIIGPLIVTAIYAASAS TWNGNRACSSSVTRIVSILSRFI GIITPMNRNPPYTEASVTKQEK TALNMARFIRSQTLTLEKLNE LDADEQADICESLHDHADELYR SCLARFGDDGNSYDHDYAKLA CLQVEGRGGGTFAHELLAVEY AGWISPAFRLKVNQTIDYRTG RLQPAIPQSLPEALRLAADLAE QKQRLEQKMLMDAPKVEFAER VATASGVLIGNYAKVLGLGQN YLFTWLRDNGILI/CNR*TQERP QTRIHISWVFH/LLKKP*SIQAM EAG/LSFTTRITGKGQQWLMKR LLDARNRDYKQWKQDFFHDS YNRQSAGHILSQCANLAATTSE YFIHKPHRLIAAETGYSQSTVV RAFREAVNKGILSVEIVIGDHRE RRANLYRFTSPFLAFAQQA KNALIESKLKISSAATKVAVLAKTL ALFNFLSTPPCQNDTPSPCQDD VAIKNKKSQVKKTKRSVSGGA GTTSLKKLTSWIAKAKAKADN LRLSKKRTQKHEFKQKVEAAA RKYAYLKNKRSPDIGGISNFDN
10419	40787	A	10480	1	2559	

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10420	40788	A	10481	1	1676	MLNGEKLAVKQEALLAAISEK DANIALLELSSSKKKTQEEVAA LKREKDRVLVQQLKQQVEGRGG GTFAHELLAVEYAGWISPAFRL KVNQTFIDYRTGRLQPAIPQSLP EALRLAADLAEQKQRLEQKML MDAPKVEFAERVATASGVLLIG NYAKVLGLGQNYLFTWLRDN GILIATGERRNVPKQEYISRGYF TLKETVIDTSNGSRJSFTTRITGK GQQWLMKRLLDADVVRTTSIV MLAKVTFLLSCITMSDFTFSGYE LACFVTHSGLSRSAGHILSQCA NLAATTSEYFIHKPHRLIAAETG YSQSTVVRAFREAVNKGILSVE IVIGDHRERRANLYRFTPSFLAF AQQAKNALIESKLKISSAATKV KAVLAKTLALFNFLSTPPCQND TPSPCQDDVAIKNKKSQVKKTK RSVSGGAGTTSLLKLTSWIAKA KAKADNLRLLSKKRTQKHEFKQ KVEAAARKYAYLKNKRSPDIG GISNFDNLPHCMTVNEALNAVL AKNKDNEQWGAVAGAYIADIT DGEDRARHFGMLMSACFGVGM VAGPVAGLLGAISLHAPFLAA AVLNGLNLLGCFMQESHKG ERRGELLKIVVLPGDHVGQEIT AEAIVLKAISDVRSNVKFDDE NHLIGGAIDLQGGGGKPRCVS KSLMLH/CWHSCRLEPRWR*QR VQRIRL*VHP*AFFAPAVAFALP
10421	40789	A	10482	1	3213	
10422	40790	A	10483	1089	1373	
10423	40791	A	10484	2720	2968	TTTLVRLPCRSPKRRIKALRSQL RRKSILKPLLS*SR*STTK*RNTP CSQVSSLSRLSTRYRRRMKHSV NLVWTWVPYSSAP
10424	40792	A	10485	2	2264	
10425	40793	A	10486	1693	1980	
10426	40794	A	10487	1776	2026	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSSNRACSS SVTRIVSILSRFIGI
10427	40795	A	10488	1323	2064	
10428	40796	A	10489	53	243	WTVPLGAVPPVRMHEGLGCW CKLNGEVCMGSMCLLCWWDC D*RHDLKANLDRLMNVQCQDGR KR
10429	40797	A	10490	1	3117	
10430	40798	A	10491	1	1227	

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10431	40799	B	10492	1	2119	
10432	40800	A	10493	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRSITGHVH HQ
10433	40801	A	10494	1	2822	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSLDLQRDLDSTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRRIKNTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLELEKQEQTTHSKASRRQE ITKIRAELEKETQ
10434	40802	A	10495	2	163	
10435	40803	A	10496	4051	4355	MRKPTLGRTPSRPPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVLT KRWH*P*VIFLWSRRIHTASCLP SQRSITGHVHHQ
10436	40804	B	10497	1692	1781	
10437	40805	B	10498	1	3477	
10438	40806	A	10499	179	439	KKELVNLTTD*SLENR/WIDVL GPEKRRRTTQEKIAIVQQSF/G TGDDGLPRCPATWCSSQPVISL A*AIPGRKSYCCRRRTGCSCSCL
10439	40807	A	10500	1	7456	MYQANGKQKKAGVAILVSDKT DFKPTKIKRDKEGHYIMVKGSI QQEELTILNIYAPNTGAPTFIQQ VLSDLQRDLDSHTLIIGDFNTPL STSDRSTRQKVNKDTQELNSAL HQADLIDIYRTLHPKSTEYTFFS APHHTYSKIDHILGSKALLSKC KRTTEITNYLSDHSAIKLELMIK NLTQNHSTIWKLNNLLLNDYW VHKEMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDT
10440	40808	A	10501	2476	2718	WPLRGRGGHRAAPGRHLHLQQ RLLRLHLTACLLQDALDG/GP PRCWRGSCRWRCSAGPPRSWA RRPSATRSPSWPALECS

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10441	40809	A	10502	2	4517	HRLANWIKSQDPSVCYIPETHL TCRDTHRLKIKGWRKIYQANG KQKQAGVAIHISDKTDFKPTKI KRDKEGHYIMVKGSIQQEKLTI LNVYAPNTGAPRFIMQVLSDLQ RDLDSTLIMGDFNTPLSTLDR LTRQKVNKDTQELNSALHQVD LIDIYRTLQPKSTEYTLFSAPHH TYSKIDHILGSKALLSKCKRTEII TNYLSDHSAIKLELRIKKLTQIR STAWKLNNLLLNDYWVHNEM KAEIKMFFKNNEN
10442	40810	B	10503	88	501	
10443	40811	A	10504	1	971	MWALFMIRNVKKQRPVNLDLQ TIRFPITAIASILHRVSGVITFVA VGILLWLEYRLSYLKGSSKLR DYGQLLTLEIPAALLPIHTGIVN QNINCTETLTASSDNLLRR AFC GDTHLHEVHLNTLFFNHFLCFA VIFDETRNKDICATSGQHAHFV DKKRKRELLSHMIGKGNWQQV LVFTRTKHGANHLAEQLNKDG IRSAAIHGNKSQGARTALADF KSGDIRVLVATDIAA/RGLDIEE LPHVVNYELPNVPEDYVHRIGR TGRAAATGEALSLVRSFFDWC DDCAAAGGMGNRNAQLADGI YHLRCIELYLGDMADFL

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10444	40812	A	10505	1	2201	MSFDSLGLSPDILRAVAEQGYR EPTPIQQQAIPAVLEGRDLMAS AQGTGTGKTAGFTLPLLQHLITR QPHAKGRRPVRAILTPTRELA AQIGENVRDYSKYLNIRSLVVF GGVSINPQMMKLARGGVVDLV ATPGRLLDLEHQNAVKLDQVEI LVLDEADRMLDMGFIHDIRRVL TKLPAKRQNLFSATFSDDIKA LAEKLLHNPLEIEVARRNTASD QVTQHVHFVDKKRKRELLSHM IGKG\NWQQVLVFTRTKHGAN HLAEQLNKDGIRRAAKHGNKC KCAYSKFQKPSPHFTMLIGVC GVNQSAITNVSNVSNMAKISGS GSHRLTKRVIKRDMPINHPV AYSRRRLQTELLFWHARWLN HTRRQFRIKEGDNGGQCFLFW TGRFNFNLPSFGRIQHQQRNNA VGFSLGAFVITFIAGRACMPSLF VISTVCLTMVYVFPAYDGV GRFYRASGSSLPVALQYTPNGA SRRYNQWRPSRMLSSLKKQKW RKGMSSESLHLTRNGSILEITLDR PKANAIDAKTSFEMGEVFLNFR DDPQLRVAITGAGEKFFSAGW DLKAAAEGEAPDADFGPGGFA GLTEIFNLDPVIAAVNGYA GGFELALAADFIVCADNASFAL PEAKLGIVPDSGGVLRPLPKILPP AIVNEMVMTGRRMGAEELR WGIVNRVVSQAELMDNARELA
10445	40813	A	10506	1	168	MCEKNLAYAHKVKAALKGA SPGDFPREDETWNWEGRFTLA DLNIHGKRALGMDV
10446	40814	C	10507	1	3861	
10447	40815	A	10508	1	7407	
10448	40816	A	10509	290	661	QPLPEGRW/THLWHNDEL DGS RWHK/QQHGFSLSPVYVRDNT LRALGNNDQRPDYVWHE/GTA FHLFN/LKAARTGNTITAI DASE ANNWTLCLRNGVKVNGLQDG SQAESQGLVVKPQGNALTITL
10449	40817	A	10510	3	510	KFHFMSPFPAHSMVQALE*LYA LGGLDKDCRLTEPLGMRIAEP LNPMFAKMLLESGNFGCSQEIL SIAAMMQIQNIFVPPNHKSHAI RVHRKFAVEEGDHLTMLNIYE AFIKHNKDSKWCQEHLNYKG LVRAATVREQLKLLVKFQVP RKSSEGDPLVLR C IVS

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10450	40818	A	10511	1	1920	MIWGRAWWLTPVIPALWAAK VAGRVAEERGAVLGHEVGYCI RFDDCTDQLATRIKRLTESFSLI LSVIMLDEAHERTLYTDIAIGLL KKIQKKRGDLRLIVASATLDAD EEVETVVSMLEIARALARTG MKRHLRLVLPYAGLPSFEQMK VFERVSRSVRKVIVATNVAETSI TISGIVYVIDCGFVKLRAYNPRT AIECLVVVPVSQASANQRAGR GGRSRSGKCYRLYTEEAFDKLP QSTVPEMQRSNLAPVILQLKAL GIDNVLRHFHMSPPPAQSMVQA LELLYALGSLDKDCRLTEPLG MRIAEFPLNPMFAKMLLESNGF GCSQEILSIAAMMQIQNIFVPP NQKSHAIRVHRKFAVEEGDHL TMLNIYEAFIKVSTTTARSAAST HHPLEHNKDSKWCQEHFLNYK GLVRAATVREQLKLLVKFQV PRKSSEGDPLVLRICIVSGFIFA NAARFHSTGAYRTIRDDHELHI HPASVLYAEKPPRWVIYNE\LL QTSKYMRDVTAIESA WAVGS WLHTFYSTRERTCSLESQKGPR SRDPLRREPTVYSCRDCWRPLL HAAAPGPRWGELAPAPVECLV ALKWAAACSLVLSSRCPQHLH PCWDPGGLCAWAGILLCCSGQ SGSWLTQHAH
10451	40819	A	10512	3	414	
10452	40820	B	10513	62	1408	

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10453	40821	A	10514	1	1388	MGTSSIFLCVFLFCGALGLTMS PARGRLRCYICGFTKPCHPVPTE CRDDEACGISIGTSGCRGIFQVP DGQRDSRSHFPADVTKITWAC GQSPPGFKPLFPSCSSPKTGQM DVLIDLDFGFELRNNGIWGEGA IRDTEEKSA DNLEPCSSPPPLEE VICCEGNAGFYEVGCVSTPLEA GYSVLGWNHPGFAGSTGVFPF QNEANAMDVVVQFAIHLFFH PQDIIYALAIGGFTATWAAMS YPDVSAMILDASFDDLVLALK VMPDSWRGLVTRTVRQHLNLN NAEQLCRYQGPVLLIRKTQDG NLTPTVP\KDICSNRANCLLVKA LQ\HRYPG\VMAEEGLLVARQW LEASSQLEEASIYSR\WEVEED WCL\SVLR\SY\QAEHGADFPW\ SVGEDMSA\DGR\RQL\ALFLAR KHLHNFEATHCTPLPAQNFPRC PWHPLGTQLGLIMEEWGERRH
10454	40822	A	10515	1	1519	MGFLPKLLLLASFFPAGQASWG VSSPDVQGVKGSCLLIPCIFSF PADVEVPDGITAIWYYDYSGQR RVFMGNPEHRVCNLLLKDLQP EDSGSYNFRFEISEVNRWSDVK GTLVTVTARSLSPGRHLETLH MAMSWQDHGRILRCQLSVAN HRAQSEIHLQVKYAPRGVKILL SPSGRNILPGELVTLTCQVNSSY PAVSSIKWLKDGVRQLTKTGV LHLPQAAWSDAGVYTCAENG VGSLVSPISLHIFMAEVQVSPA GPILENQTVTLVCNTPNEAPSD LRYSWYKNHVLEDAHSHTLR LHLATRADTGIFYCEVQNVHG SERSGPVSVVNHPPKTPTMM VFVEPEGGLRGILDCRVDSEPL ASLTLHLGSRLVASSQPQGAPA EPHIHVLA SPNALRVDIEALRPS DQGEYICSASNVLGSASTSTYF GVRALHRL/LSVPAAALGPGTA/ VWASCSCCWA WGPATPGGTG YYLTGTYKSGGQTQMLSASLF
10455	40823	A	10516	3	615	
10456	40824	A	10517	373	631	SGGPD TDVVSIPYSCSRMHLCS *LCELLSFSWETLCRA VKENEL PKKE*RAPANQGPTGESSLSGL SDSPLQPGGDGVEERRALLF

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10457	40825	A	10518	1	5521	MANRFRSGEDSGGAIWQDCVE EGASELGFLESLLYTQGNDRKQ CSLTNQGRQVFALLMLRKGHL HVFVILFGPAGPAPPQPLPSVEQ VPLSLVPGPKGVA VSRTPPFFH QVHDCPFQDPK WEEQGSWDKI AALAIAELTLTSPVARDTSDPQ CAQQA AFLHGQASWGVSSPDQ VQGVKGSCLLIPCIFSFPADVEV PDGITAIWYYDYSQQRQVVSHS ADPKLVEARFRGRTEFMGNPE HRVCNLLLKDLQPEDS
10458	40826	A	10519	1	1149	
10459	40827	A	10520	111	370	SHRRSLGEAARHPSFRPAGTAF E*VSQKV VHPRDLEDRSACVPV GCSLTRESFFRLNNQPHGTRFLP IPSNPESSRRAVPSAHLTV
10460	40828	A	10521	1	220	
10461	40829	A	10522	654	967	
10462	40830	A	10523	2	1415	
10463	40831	A	10524	2	293	CGKAFTQHSRLIQH/QRMHTGE KPYEYWEFGEKPRIYLQRKTFM KLDTTTGEGQSYQRNQMPCEP YGEKPKCKECKGKSFRR/SSELT RHQRAHTGEKP
10464	40832	A	10525	51	378	GDFSPQKPPMAPHGCLTYLAFQ KVKEGKKEEKKKKRKKERK KERKKERKKERKKERKRKEKK E\EGKEGRKEGRKEGRKEGRKE KKEISKKEIVAPTSNLPLKCSVL
10465	40833	A	10526	1	235	
10466	40834	A	10527	545	793	NKEMHWPCTGLCSHPWGFK DCSLLE*RLPGQQEQNSIERKK RKKEKKEKKEKRKKRKGKKE ERKKERKYHFILLGMPST
10467	40835	A	10528	127	376	
10468	40836	A	10529	3	710	EPG/NPERLK/GFSYPEFEDLDA LFSTLGLNEESVDSFDDYLPRR GVDSFGDKYQD/RCNSDQYHD GCQDRFRDGS HQDMGQCGGR D*DDD*GSRDYDRGYDSATGS CRRAFSGSYLRDDDY\WESSET EQQPPTGSEGKVPPVQPSEERP AKKDENV DGMN/APKVQSGN SGRGP GDGGNKDCWRES DRKD GKKDQVCRSAPESKKPEENPAS KFSSASKCAAVSVDGEDEKEG

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10469	40837	A	10530	1	548	MQRSENDILGMDLRPLICIKDE KEEVGEKEEGEKEEECEEQEE EGGKEWEEPGNYHLGQSLSHD WQSSETEQQPPTGSEGKVPVQ PSEERPAKKDENKVDGMN/APK VQSGNSGRGPGDGGNKDCWRE SDRKDGKKDQVCRSAPESKKP EENPASKFSSASKCAAVSVDGE DEKEGADYTK
10470	40838	C	10531	37	289	
10471	40839	A	10532	1	1062	
10472	40840	A	10533	1	1977	
10473	40841	A	10534	1	2050	LPLLHAGFNRRFMENSSIIACYN ELIQIEHGEVRSQFKLRACNSVF TALDHCHEAIEITSDDHVIQYV NPAFERMMGYHKGELLGKELA DLPKSDKNRADLLDTINTCIKK GKEWQGVYYARRKSGDSIQQH VKITPVIGQGKIRHFVSLKKLC CTTDNNKQIHKIHRDSDNSQT EPHSFRYKNRRKESIDVKSISR GSDAPSLQNRYPSPMARIHSM IEAPITKVINIINAAQENSPVTV EALDRVLEILRTTELYSPQLGTK DEDPHTSDLVGGLMTDGLRRL SGNEYVFTKNVHQSHSLVAMP INHSMDEVPPCISQLLDNEESWD FNIFELEAITHKRPLVYLGLKVF SRFGVCEFLNCSETTLRAWFQV IEANYHSSNAYHNSTHAADV HATAFFLGKERVKGSLDQLDE VAALIAATVHDVDHPGRTNSF LCNAGSELAVLYNDTAVLES HHTALAFQLTVKDTK\CNIFKN ID/RGNHYRTLRLQAIDMVLATE MTKHFEHVNFVNSINKPMAA EIEGSDCECNPAGKNFPENQILI KRMMIKCADVANPCRPLDLCE WAGRISEYFAQTDEEKRQGLP VVMPPVDFRNTCSIPKSQISFIDY FITDMFDAWDAFAHLPALMQH LADNYKHWKTLDDLKCKSLRL PSDRLKPSHRGGLLTDKGHCES
10474	40842	A	10535	2	445	ERTFNCCYPGCHFKTVHGMKD LDRHLRIHTGDKPHKCEFCDKC FSRKDNLTMHMRCHTSVKPHK CHLCDYAAVDSSSLKKHLRIHS DERPYKCQLCPYASRNSSQLTV HLRSHTGPGPADLLEHSRLHQ ADHPEKCPECSYSCSSAA
10475	40843	A	10536	1	957	

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10476	40844	A	10537	1	1438	MSRRKQAKPQHLNSEPRPARR ECAEVAPQVAGEPASELDDDV PKANCLSTESTDTPKAPVITLPS EAREQMATLGERTFNCCYPGC HFKTVHGMKDLDRHLRIHTVP FCFSKVYWNGFQLGMISPPKGT MSGDIFDCYNWRRKGSTGICIW TGGGGTPICPGYHLGQIFVAILT KKPLTLTPYVFEGDKPHKCEFC DKCFSRKDNLTMHMRCVHTSV KPHKCHLCDYAAVDSSSLKKH LRIHSDERPYKCQVCPYASRNS SQLTVHLRSHTA\GDTPFQCWL CSAKFKISSDLKRHMIVHSGEK PFKCEFCDVRCMTKANLKSHIR IKHTFKCLHCAFQGRDRADLLE HSRA/LHQADHT\EKCECSYSC SSAAALRVHSRVHCKDRPFKC DFCSFDTKRPSSLAKHVDKVHR DEAKTENRAPLGKEGLREGSSQ HVAKIVTQRAFRCETCGASFVR DDSLRCHKKQHSQDQSEKQNL
10477	40845	A	10538	1	1427	MIAFDSMSHIQVMLMQEESTAP ATLEHILGHSQLCGSDGLAHAA VWVLAHLHYWFTGLSPGPM VLPLHPAIISSFHLWRVAFISKA GKPRAAGHLLKRFLRCQFQRA ASSLLFTTVEAMLGTESGTEKV MRGAGTWYHIIENWPSAECV WTEEQQGRGQEDSAEDRKLF VGMLNKQQSEDDVRRLEAFG NIEECTILRGPDGNSKGCAFVK YSSHAQAQAINALHGSQTMP GASSSLVVKFADTDKERTMRR MQQMAGQMGMFNPMAIPFGA YGAYAQALMQQAALMASVA QGGYLNPMAAFAAAQMQQMA ALNMNGLAAAPMTPTSGGSTP PGITAPAVPSIPSPIGVNGFTGLP PQANGQPAAEENFANGIHPYPA QSPTAADPLQQAAYAGVQQYAG PAAYPAA YGQISQAFQPPPMIP QQQREGFVSFDNPASAQTAIQA MNGFQIGMKRLKVQLKRPKDA NRPY

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10478	40846	A	10539	1	547	AAAPMTPTSGGSTPPGITAPAV PSIPSPIGVNGFTGLPPQANGQP AAEAVFANGIHPYPAQSPTAAD PL\QQAYAGVQQYAGPAAYPA AYGQISQAFPPPPMIPQQQRE GPEG\CNLFYHLPQEFGDS\EL MQ\MFLPFGFRE/RFDNPASAQT AIQAMNGF\QIGMKRLKVQLKR PKDANRPY
10479	40847	A	10540	96	1080	WFKCYGCNSS/RDWQRSTYLLS WEVR/G/RVPD SGCKA VVALC SQPAHPSNICKGVGGCLTK\HLL LMGAMGIRVACLEVWRDGEER GGEEATFFTSLAERQVGT AHRH LHQPALYIQIRKVPAALHMCVV QKPSLFQADSRAPLEQGLRQQA SLATARPIVSGANAGPAGLKVP QAAQLQLSPYLHRGVGDEACR YGRSQPTRKAFALCICAAPALP CPALDGSWMVCGLGQETRTSL ANVQSFTQRPQQQPLTVWMLN RGRKPAQGTLTVICPIGPHLLT STITESVCVPRRNKYHSRTLPA AQHCQWLVTAVPTALGLVIRA GSKKLC
10480	40848	A	10541	1	392	
10481	40849	A	10542	1	110	FFWSHS*VYYTCFLLQN*KHLK PGPSGSLSPSISGN
10482	40850	A	10543	1	978	MAAATRGCRPWGSLGLGLV SAAAAAWDLASLRTLGAFCF CDFRPDLPGLECDLAQHLAQ HLAKALVVKALKAFVRDPAPT KPLVLSLHGWTGTGKSYVSSLL AHYLFQGGLRSPRVHGFSPVLH FPHPSHIERYKN\DLKSWVQGN LTACGRSLFL\DEMDK\MPPGL \MEVLRPFLGSSWVVYGTNYR KAIFISNTGGEQINQVALEAW RSRRDREEILLQELEPVISRAVL DKPAPLPSPNSGHHWKERLLD AVVPFLPLQRHHVRHCVLNEL AQLGPGAKGMRVVQAVLDSTT FFPEDEQLFSSNGCKTVASRIAF

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10483	40851	A	10544	1	560	ATSPHQSQSTVDVGQLHDPQP YPQHAIQVQHIQVSEPTASAPSS AQQSSSTQGGGLQQQQQQQQ NSSVQHTYLPSA WNSFRGYSSE IQMMTLPPGQFVITDSGVATPV TTGQVKAVTSGHYVLSESQSEL EEKQTSALSGGVQVEPPAHS LDPQTNKQQQTQYIITTTNG NGSSEVHITKP
10484	40852	A	10545	3	205	
10485	40853	A	10546	2	348	ADQARGKPTWAVSATQFQLD FPIT*CYGLL*QVRSSRHIGALQ GKPVPLLVLLYPITPREGGLG DRARLCLKQQQQQQQQQQQQ QLLLLLLLLLLLLLLLQQCEGT EGRPPFD
10486	40854	A	10547	1	1146	MVTYKLVLRGCESTWNLENH FSS\WQKRA/IRLWTVLDAIDQ MRLPVVRTWCLKEWHYGLA GLNKAETSAKHGEAQSNISKGC RYADLTEDQLSSGESLKEIVPQI KEGKWVLTAAHGNSLRGIVKH LEGLSEEAIMELNLPTGIPIVE LDKNLKPMPQFLGDEVTLC AMEAVAAQSKAKRRPAGML LSPGTPSLAIPSSAPAPCTCHTD HIWNSPVYSDAILRANPFCVHI SKANYLVNELHTAVNVAGLYI GWRCPHYLWDCFRIGDESRCF CGHLLREHRIISDISVPCKVSQC RCFMFCFIPSRPEEVGCCCGCFE SNFLCAACDRRWEHETFFDTQ KTRQRGGRPRGADYVPFAEMA VLREAILSNSDF
10487	40855	A	10548	2	516	GRLNERHYGGLTGLNIAETAA KHGEAQVKIWRSSYDVPPPKE PDHPFYRNIRMDRRYADLTED QLPSCESLKD TIARALPFWNEEI GPQIKEGKRVLIATHGNSLRGIV KPWEGLSEEAIMELNLPTGIPIV YELDKNLKPMPQFLGDEET VRKAMEAVAAQKAKK
10488	40856	B	10549	123	237	

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10489	40857	A	10550	1	952	PAAPQVAGRLGLGCPHLHVF AVVSAMLPLLRCVPRVLGSSV AGLRAAAPASPRQLLQPAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGCGCGSLHTDGDKAF VDFLSDEIKEERKIQKHKTLPK MSGGWELELNGTEAKLVKVA GEKIPVPFNNINNSIPPATFYGEKD PSQSQKVIEDREPELTSLPKFVV EVIKNDGGRKALVLDCHYPED EVGQEDAEESDIFSIREVSFQS TGESEWKDNTNYTLNTDSLDDWA LYDHLMDFLADRGVDNTFADE LVELSTALEHQEYITFLEDLQEV LSRAHRADRC
10490	40858	A	10551	1	879	AAGCRKENSLDLRSQFPRGRDS EDFNVKEEANAABEIRYTHIL NRVLPDIRILAWAPVEPSFSAR FSCLERTYRYFFPRADLDIVTM DYAAQKYVGTHDFRNLCCKMD VANGVINFORILSAQVQLVGQ SPGEGRWQEPFQLCQFEVTGQ AFLYHQVRCMMAILFLIGQGM EKPEIIDE\LLNIEKNPQKPQYSM AC\EFPLVLYACKFENVKWIYD QELRSSNITHLQQLWANHAVK THMLYSMLQGLDTPVPVPCGMG PKMDGMEWGNVKSPIKQTQ CLCRRSEDAHI
10491	40859	A	10552	231	358	
10492	40860	A	10553	2	319	
10493	40861	A	10554	573	1660	MAAPTPARPVLTLLVALFGM GSWAAVNGIWVELPVVVKELP EGWSLPSYVSVLVALGNLGLL VVTLWRR LAPGKDEQVPIRVV QVLGMVGTALLASLWHHVAP VAGQLHSVAFLALAFVLALAC CASNVTFPLPFLSHLPPRFLRSFF LG\QGLSALLPCVLALVQGVG RLECPPAPINGTPGPPLDFLERF PASTFFWALTALLVASAAAFQG LLLLLPPPPSVPTGELGSGLQVG APGAEBEEVEESSPLQEPSSQAA GTPGPDPKAYQLLSARSACLL GLLAATNALTNGLVPAVQSFSF LPYGRALPPGLWCWAVLPIP WACFLGHGCCAGPWQGWGG LLSAGRVLWGLPDGRWQS

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10494	40862	A	10555	154	850	QFFRVITCLPFKGPDYRLYKSEP ELTTVAEVDESNGEEKSEPVSEI ETSVVKGSHFPVGVPPRAKSP TPESSTIASYVTLRKTCKMMDL RTERPRSAVEQLCLAESTRPRM TVEEQMERIRRHQQACLREKK KGLKCFSVLSDQSPSQPSNLR DNPFRTTQTRRRDDKELDTAIR ENDVKPDHETPATEIVQLKETE PQNVDFS/IRGLLDGPSVSILPGR SIKRAKNQNS
10495	40863	C	10556	39	436	
10496	40864	A	10557	2	959	
10497	40865	A	10558	34	1044	QGCAVAGPLHPARLPCCVHGC PVRMHASLCHVRCHFAVTFR LMYLDWLPTVIEPCGVGSNKV PVVQHPHHVHPLTPLITYSNEH FTPGNPPPHLPADVDPKT/GMC SCGTGRCAVARTCRIRSCVPCE ALSPCDARGAHSAGIPRPPHPPD ISPYYPPLSPGTQGGQPVYPITGG FRHPYPTALTVDNASMSRKHQD SKKEEEKKKPHIKKPLNAFMLY MKEMRAKVVAECTLKESAAIN QILGRRLGYNARAFGLKRGWR LDKYRGFVWEMAVWSLPPA FSFQGKKKKRKRDKQPGETND KPESLGAASLMVVGWNTYRN QEKHIPTLELDHTVSV
10498	40866	A	10559	2	398	
10499	40867	A	10560	174	362	
10500	40868	A	10561	14	266	
10501	40869	B	10562	67	474	

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10502	40870	A	10563	1938	3291	ERRKRFGMLDATDGPGETDAA LRMEVDRSPGLPMSDLKTHNV HVEIEQRWHQVETTPLEEKQV PIAPVHLSSDGGDRLSTHELTS LLEKELEQSQKEASDLLEQNRL LQDQLRVALGREQSAREGYVL QATCERGFAAMEETHQKKIED LQRQHORELEKLREEKDRLLAE ETAATISAIEAMKNAHREEMER ELEKSQRSQISSVNSDVEALRG QYLEELQSVHRELEVLSQYS AKCLENLAHAQALEAERQALR QCQRENQELNAHNQELNNRLA AEITRLRTLTTGDDGGGEATGSP LAQGKDAH*LKGLMRVKESEI QYLKQEISSLKDELQTALRDK KYASDKYKDIYTELSIAKAKA\ DC\DISRLKEQLKAATEALGEK'S PDSATVSGY\DI\MKSKSNP\DFL KKDRSCVTRQLRNIRSKSLKEG LTVQERLKLFEERDLKKD
10503	40871	B	10564	58	4405	
10504	40872	A	10565	3	156	NSSHCHHHHHHHHHHHQH QHNC\HQQHHYHHYDYHH DDNYHHHHHHHH
10505	40873	A	10566	10	445	HRSTITRQCPSGLETRIALPPA VFPSGSRTLPSTPGSSSPQPR/P PLTRGPGPPRTHALASGTRGPA RGEEKVADTPHHGEGGCPNSE KEPFLHPTAPPPRLPTSPESGP VPHTLQQAPPLRRHLGGTPAGA PASPQSSEWGG
10506	40874	A	10567	1	288	
10507	40875	A	10568	50	542	TLSPERLSPELRLPYMITLGDA VHNFADG\LA VGAAFAISWKT GLATSLAVFCHELPHELGLRP LAAPGAVPCA KELLNLASALT AFAGLYVALAVGVSESEAWI LAVATALFLYVAICDMLPAML KVRDPRPWLLFLLHNVLGG WTVPADAVPVRG
10508	40876	A	10569	1	690	
10509	40877	B	10570	34	465	
10510	40878	A	10571	1	624	
10511	40879	A	10572	3	933	

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10512	40880	A	10573	1	1481	RRFPPAGAVAVIERGVRRGGSQR CRTMADQLYLENIDEFVITDQN KIVTYKWLSYTLGVHVNQAKQ MLYDYVERKRRKENSQAQLHVT YLVSGSLIQNGHSCHKVAVLRE DKLEAVKSKLAVTASIHVYSIQ\K KAMLKDSGPLFNTDYDILKSNL QNCSKFSAIQCA\AAVPRAPAES SSSSKKFEQSHLHMSSETQANN ELTTNGHGPPASKQVSQQPKGI MGMFASKAAKTQETNKETKT EAKEVTNASAAGNKA PGKGN MMSNFFGKAAMNKFKNLDS EQAVKEEKIVEQPTVSVTEPKL ATPAGLKKSSKKAEPVKVLQK EKK\RGKRVALSDDTKETENM RKKRRT\IKLPESDNSEYEVFPD SSGAYEAESPSPPPSPPLEPVP KTEPEPPSVKSSSGENKRKRKR VLKSKTYLDGEGCIVTEKVYES ESCTDSEEELNMKTSSVHRPPA MTVKKEPREERKGPKKGTAAL GKANRQVSITGFFQRK
10513	40881	A	10574	1	100	

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10514	40882	A	10575	2	2271	PELLTEGVKEPIMDSQERDSGD PLVDESLKRQGFQENYDARLSR IDIANTLREQVQDLFNKKYGEA LGIKYPVQVPYKRIKSNPGSVII EGLPPGIPFRKPCTFGSQNLERIL AVADKIKFTATRPFGQLIPKPD EDDANRLGEKIVILREQVIMKELF NEKLR*GPWGLNRPVLVPYKLA IRDSPDAVEVGPLDDIPIRNP TYDIHRLEKILKAREHVRMAIIS QLQLLQQQQHHISEGRPF AEIC NDAKVPGESEARKPPFCPVGTR LFLKKREPEVSMNKDRYPQE APRNLQSLRTLDDILDDPRGGC VHLRQSQSRWRGADTRELPRG MLEGLRQLLSAIGCPDPTCAP AQPGDQPLQRLAFTLANEPQTV LEKPPPRFRRRGAARSPEQLYTP RRGGVLP AEPERTQSASADAGS LACRALEVDSGCPTGPPCPKGS RRLTITSGVDCGLLKQMKLEQ EKVVLLQGLEMMAQSRLQRLQ PVQDRQCRLGQSRASADFGPA GSPHPLGRLLPKVQEVARCVGE LLAAAGASRALPTSSSGPLCPA LTFTSFPGWQQQTILMLKEQNR RLTQEVTEKSGRVMQLEQKSA LIMKQLFEAQALSQQDGEASGL HLHLARLGWAEPQGSSVTQPFE GGRPVSPNVSGWRPPAAQAVP EWAPSCPTCHPGFPGPPPAGPR TEPLTRFWLLVLTWAGALLSLH
10515	40883	A	10576	346	3136	ALRTKRLWPGGHCRAEAPQWP P/ASPLAPATALAAHSRHLSLCR SDKGSMSEDCGPGTSGELGGLR PIKIEPEVLDIIQVTVPDALPTSE EMTDSMPGHLPSSEDSGYGMET LTDKKWTWDGAKAIGISEPIKV LYSKFLMHPEELFVVGLPEGISL RRPNCFGIAKLWKILEASNSIQF VIKSGEIRWDRELFRCRACSM GGSLQIAKSYTTGLESKSCDP AVESKASAGQDEMOPHARPKL LTEGVKEPIVD
10516	40884	A	10577	60	352	
10517	40885	B	10578	1	720	
10518	40886	B	10579	1	1478	
10519	40887	B	10580	1	1895	
10520	40888	A	10581	2	413	

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10521	40889	A	10582	2	969	WGSWAPQSRGCPYQPGAAQGR ALAPQHRGSCSPWTTGGGKE/Y LMRAHFGLPSVEAEDKEGKPP SVKFEIPYFTTSGIQVRLAPGSL YGRKRSSLGKSHPSLLQVDGQ YSQQQGAGHPRGTRGSGQTPG ARQRVEPGKCWPVVCVPHVPC PPTSTALRKHLRPQRAIYTSRLA PGALGGHCSVCLLPGLAGLAC GAFPGPAWVTRCCHSARSVLT HQGAPPDPDITVPARLPEPEVE VSCRGRRPALLNAQSPPSLPPP PPSAAAEASCSSHVRQRLRAG PEGQGFYLFHDRNKHSILKLAK PREPFCVVTDSRIQFGPPH
10522	40890	A	10583	50	1083	NPRAIFKSVRTCVPPTQPCRN KARSCGVGAGTTSFTLSVWPH RYITQEGHKLETGAPRPGTVT NAVCWRSEGIKYRKNEVFLDVI ESVNLLVSA\NGNVLRSEIVGSI KMRVFLSGMPELRLGLN\DKVL FDNTGRGK\SKSVE\LEDVKFHQ CVRLSRFENDR\TISFIPPDG\EFE \LMSYRLNTHVK\PLIWIESVIEK HSHSRIEYMIKAKSQFKR\STA NNVGDPHFPLPNDCLNPSFK\T TVGERLSWVPENSEIVWSIKSFP GGKEYLMRAHFGLPSV\EAEDK EGKPPDSVFKF\EIPY\LTSGIQ VRYLKIIEKSGYQALPWVRYIT QNGDYQLRTQ
10523	40891	C	10584	175	454	
10524	40892	A	10585	1	193	LLPRPGSLDFLLSPVLPS/HSAS WACPLPRSPMPSSCC*R*RKE MASGFSKGPTLGCCPTCPP
10525	40893	A	10586	2780	2965	SPSQGESIPT*WRPTGPSPTSSP GPA*SSLSPRSPSSASASPSMC VRPSMWAASLLKSL
10526	40894	A	10587	1	1502	
10527	40895	A	10588	1256	1990	RCAPMTTCAWASCCSPWPTPF GTGPPSTSVSTSWPWQPWGWG WL*VGAAPAGGRQHPSPPALPR RSSGRSKLSRPSLCQLVPIL*T RLLSPPQKESLPWRGSWREFPL PQLNTLPATEADPGVSSLPSAQ RHLHSYKIKVLSRQESLAPAPA SGYPESTALPQNGRGPWAVGF GQIPFLCIHNVGRSLGAGPGSG KPLPCVFRSTFSSSHQYCRLGR KHNFHFTKGKLRCCGPGDGR

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10528	40896	A	10589	375	678	RCCCCTTRPARKCRTTMGIRHS TWPAPTATRTHSGSRSPGSTA ASPRGLCPRPALTDPCGHL SG LPVASV*AGSCPHVPGDQTTRK SGTVFPTQCTRP
10529	40897	B	10590	1	2452	
10530	40898	B	10591	1	1140	
10531	40899	A	10592	1	1617	
10532	40900	A	10593	1	1448	RERSCLHLVCIRCSCDVVEMGS VLGLCSMASWIPCLCGSAPCLL CRCCPSGNNSTVTRLIYALFLL VGVCVACVMLIPGMEEQLNKIP GFCENEKGVVPCNILVGYKAV YRLCFGLAMFYLLSLLMIKVK SSSDPRAAVHNGFWFFKFAAAI AIIIGAFFIPEGTFTTVWFYVGM AGAFCFILIQVLVLLIDFAHSWNE SWVEKMEEGNSRCWYAALLS ATALNYLLSLVAIVLFFVYYTH PASCSENKAFISVNMLLCVGAS VMSILPKIQESQPRSGLLQSSVIT VYTMYLTRS\CMTNEPETNCNP SLLSIIGYNTTSTVPKEGQS\VQ WWHAQGNIGLILFLLCVFYSSIR TSNNGQVNKLTLT\SGESTLIGR WVGAR\SDGITGRDGGTDVSPE AVRINGK/RDGCSLYSYFFHF MLC\LASLYIMM\TLTSWYRYE P\SAWMESQWTA\VL\WVKISS WIGIVLYVWTLVAPLVLTNRDF
10533	40901	A	10594	3	343	GVLLCRL*QGQNYW/NFLQTK VTGNMRDKRTTPMPEFLHASW PNTELRYWKENCPEQKGP*PM MALS*GCPLWPAPNVTSSSKG WSPGQLWMYRFGRLRISSETG WSLWLT

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10534	40902	A	10595	1	2500	MEDAWGIRKETGRVKEEAKEV TGWGNNWRNVEKSSMSRKVK AARPGFKKLPMSTDIPPKCTIKD LLPKEKSSTEAVFHTVVLERHE SPDIEDFSFKEPQKNVHDFECQ WRDDTGNYPKGVLMQAQKEGKR DQRDRRDIENTLMNNQLGVSF HSHLPELQLFQEGGKMYECNQ VEKSTNNGSSVSPLQQIPSSVQT HRSKKYHELNHFSLLTQRRKA NSCGKPYKCNECGKAFTQNSN LTSHRRIHSGEKPYKCSECCKT FTVRSNLTIHQVIHTGEKPYKC HECGKVFRHNSYLATHRRIHTG EKPYKCNECGKAFRGHSNLT HQLIHTGEKPFKCNECGKLFTQ NSHLISHWRIHTGEKPYKCNEC GKAFSVRSSLAIHQTIHTGEKPY KCNECGKVFRYNSYLGRHRRV HTGEKPYKCNECGKAFSMHSN LATHQVIHTGTPFKCNECS\Q VFTQNSQLANHRRRIHTGEKPYK CNECGKAFSVRSSLTTHQAIHS GEKPYKCIKCGKSFTQKSHLRS HRGIHSGEKPYKCNECGKVFA QTSQARHWRVHTGEKPYKCN DCGRAFSRSSLTFHQAHTGE KPYKCHCGKVFRHNSYLATH RRIHTGEKPYKCNECGKAFSM HSNLTTHKVIHTGEKPYKCNQC GKVF\IQNSHLANHQRTHTGEK PYRCNECGKAFSVRSSLTTHQA
10535	40903	A	10596	330	432	
10536	40904	A	10597	1	147	
10537	40905	A	10598	1	380	RTRGRGQRGKMEVLQVLKRGL QQITGHGGLRGYLRVFFRTNDA KVGTLVGEDKYGNKYEDNK Q/FFWHRWLHSMDDPPTTKPL TARKFIWTNHKFNVTGTPEQY VPYSTTRKKIQEWIPPSTPYK
10538	40906	A	10599	9	536	VLKRGLQQITGHGG/LFRGYLR VFFRTNDAKVGTLVGEDKYGN KYYEDNKQFFGDERLQASGLA LTLCEQTEEGSCLWSQRSLGK SQSMNFKNSKTRSFQRTVSAGK TKYYHPVVAGRQQARATCD HVDPRTEHGPAAWPYWPRL GLKHALLTFTVALQYRAQPLFR LPNLPL
10539	40907	A	10600	239	263	
10540	40908	A	10601	1	600	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10541	40909	A	10602	1	1178	
10542	40910	A	10603	1	1038	MHLEVNSSPEPLDENLDNTVTS ALSGHEQRIQTSPLVLLTTKTEI LARFSQLQFPPEEQSSFAYPANC VKSKGMNTKLPLRPLKVCREL TIDSDRDILYRTLFMGDSGMGK VQFEFGEEVHIVIKSTGFGPFSS YATLEPFVAVQLWGGGQHYQ GQQPPMGMMGQVNQGNHMM GQRQIPPYRPPQQGPPQQYSGQ EDYYGDQYSHGGQGPPEGMN QQYYPDGHN DYGYQQPSDPEQ GYDRPYEDSSQHYYEGGNSQY GQQHDA YQGPPPPQQGYPPQQQ QYPGQQGYPKQQQGYGPSQG GPGPQYPNYPQQGQGYGGYI PTQPGPPPPQQRPHYGYDQGQY
10543	40911	A	10604	130	213	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10544	40912	A	10605	124	208	LKVST*AMPLPR*TPSRRCQP*R TGTSP
10545	40913	B	10606	140	589	
10546	40914	A	10607	1	302	
10547	40915	A	10608	2	98	
10548	40916	A	10609	2	190	
10549	40917	B	10610	1	856	
10550	40918	A	10611	123	1287	AFSLGK\MSEKKLFGPNGERMP FSKVKALCAGLQATVAAPKNA EENKAIQDVAKDTAFLGITDEA TEGQFMYLTTGGRLTYSNWKKD EPNDHGSGEDCVILLNGLWN GISCTSSFIAIFQWAHYQYRQAE NYPKGELHTLRVKLCGPSWPT NAIHFRSRLLMPLGPTVLLMTM AVFQLSQAVAMCSWCCGLVLP PAGCLQDKASKPRETQAQPG CVRGNFRIPSRQDFAAALARAL SGLDLWASLWVPFADFLGSSLS VPWFSYLENDEEDLTRLSRLN GERTFLESPGKKRIGAGTPPMS QEA VMLAVMERDPGQCRGEE GPTECRAMWPGWGGRHSLPGH PAMLC SFLGSDLEIRGSNGGWE PPFIPGLQPELARGIQGSGRGAE
10551	40919	A	10612	292	445	LSICLQSAVCTPGMD/PAAPCSL GILDWGTLPSTAEPGREGPADA WVDPGVR
10552	40920	A	10613	363	575	HLLPTQGALCPAEGWPAPWQG YTPTCDCAEDTTQLERAGQLPP VF*SCHRGGVSSQ*GSPGVPQL LHQPE

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10553	40921	A	10614	3	638	SSKLSGLTTNVVDIILAHHFGQE ELQANLDLIQTYRMHIAQDINQ DNLQLFLNSYNGRRDLEIERPIL GQNDNKSSTLKG\STLLVVGDN SPA VEA VVECN SRLNPINTTLAL KMADCGGLPPG*FSPGKLTEAF KYFLQGMGYIPLVLCYSTSGS MTSVARSR\THSTSSSLGSGESP FSRSVTSNQSDGTQES\CESPDV LDRQQTMEVSC
10554	40922	A	10615	3	1152	KSCFNAFFNFEDMQEITQHFAV CHVDAPGQQEGAP/SPFPTGYQ YPTMDELAEMLPVLTHLSLKS IIGIGVGAGAYIL\SRFALNHP ELVERPLCSLMVDPC/ALKGWIDW AASKLSGLTTNVVEIILAHHFG QEELQANLD\LIQTYRMHIAQDI NQDNLQLFLNSYNGRRDLEIER PILGQNDNKSSTLKCSTLLVVG DN SPA VEA VMADCGGLPQVVQ PGKLTEAFKYFLQGMGYIPVCA AQSP EHRVST\SASMTLARSRT HSTSSSLGSGESPFSRSVTSNQS DGTQESCESPDVLD RHQTMEIS LDDVLLSALLRNNGKSAQQKKI SAKPKLEFLCPRPGTCDHGSRE KQGH SRGPQGFPGRWP GRAVA ETRG AIDHRL
10555	40923	A	10616	169	270	GICPFLQLSFYHLLD*DTRYLQI LRLQLKPHSFH

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10556	40924	A	10617	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLLEDCKTPSPSSLGADAI AKQRKTSVSAAASVSATIPRR VQGPTVVGSWARGVSAAASGP RGTGPKGKARSEKGC SL SHGPQ TNKPLVVQKGQKMEQANHPV GLVISVVYKDILKKIVQRETSH LIHVRYAEAITGRRTAPEDKGS LGRDMLAKAGAIIMNMGNKL PIWCHLLEEGIYLEVWALEGQF GRAKNACPVQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPI LGVQKP NGQWSLVQDLRLISEAVIPLYP VVPNPYTLLSQIPEEA EWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPQGFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLLATSS EASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLGLILARGTRTLGK ERIQPILAYPHPKTLKQLWGFL QIT/GFCQLWIPR*SKI
10557	40925	A	10618	1	1022	MKPSVWALIQLNLSPYEKGILG LTKRHQGRLCDGRQGIQPLPP SQAHTGIPLHPYSIQVDCAIDR GKLCFCCCIGECNYS DQQGPGT VAGSWARGISAAVSVSATILISR VQGPLHVLGQEVFLLRRQTNL AGSERTENGAGQSPGGACYQC GLQGHFTKDCPMRNKLPPRPCP LYQGNHWKDGEPIEHDCQQIIV QTSAAEDLLEVPLANPDLNLY TDGSSFVENGEVAKAVIAQFPT TVGVSCLDGRLRVLEVLARAIR /LGEGNKGYSIRKRGSIQVPVCR *HDCISRKPHHLSPKSP*ADKQL QQSLRIQNQCAKITSILIHQ*QT
10558	40926	A	10619	1	2091	
10559	40927	B	10620	1	2269	
10560	40928	A	10621	1	1776	

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10561	40929	A	10622	112	1465	LLKGARCLIQRP SFA/LQQETHR AHTLLEWEPQAETAFTTLKQA LLQAAALTLPT RQNFSLYVTDR AEIALGVLIQTCTGTPQPVA YLT IEKGKERGEQQHKQLAEAAER KERKRQEVRE REKEKETERQSK KEREETKMESERKRETEKEVS TLAALEEPFSPQPSLGLAEAGA GSLFSWGGVEGEVRGGGRAAH SAHRLVQVPGGQVRVQVFENP LLKAIKSDLPRSSLWSGRKTSV SAAALKEIRKEISKGTQIPLGYR LCPLQAVGGGEFGPTKIHVPFS LSDLKQIKADLGKFSDDPDRYI DVLQGLGKTFDLTWRDVMLLL DQTLAFNEKNAAALAAASEFGGI WYLSQVND RMTAEERDQFPTG QQAIPSM DPHWDLSDHGDWS HKHLLTCVLEGLRGIRKKPMN YSMMSTIIQGKEENPSAFLQQL WKSLRK YTPSSKSL
10562	40930	C	10623	52	690	
10563	40931	C	10624	199	285	
10564	40932	A	10625	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLLATSEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
10565	40933	A	10626	280	571	DIYVPIRII*KLPQAYAD/PAVPP CTSGRIWL*IHAGAWSSFVLVS Y*LLPQFQILLLVYSEIQILPGLV LGECMCQGICPFLDLFLVYLRR GVCSIL
10566	40934	A	10627	60	148	WGRGEPLCLAQGL*THQSAPC QNRPLGSL
10567	40935	B	10628	1	397	
10568	40936	A	10629	55	219	LGNKHLLGSIDPRGSWVTGEYI FLRPPIAA*GRQ*DFLPPELWW TSLNNSWAFS
10569	40937	A	10630	3	494	
10570	40938	A	10631	2	689	
10571	40939	A	10632	157	277	DV*SNNSMTSLQVRCRTSMYLS GSSENFPRSTWICDAVAETPLA QEPATVPGP
10572	40940	A	10633	230	543	PSDRQTLVVQRGQKIEQANHL VGLVTSVVWKDTLKKIVHGMA FSMLISC/PRQLSSRSITIQGILGR AVTRYFSHLLSCNWETLLQIDQ GHQATDGLTNGTPNELN
10573	40941	B	10634	1	669	

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10574	40942	A	10635	119	409	GDICHLGLTPVGSHSLSCSR* QVA*VGAVTAATIGTGILLQQL AFLVCNWLLSGSSENFPRSALI CFKSEREKGTCTIQVGPNSPPPTA CKGHN
10575	40943	A	10636	3	482	LSSYSGGDLEKLYV*LRDCKYT NQHSVSSSRFVNIPISTLCLTQG L*MHPMDTLYLATLGGDLENL CVHTLYLANLVGMWRTFVSSS GIVNAPISTLSKQTT*LSVKWTN QQDVGGARQENKSRLPEPAVT TPLGSPPTPWKLCSFALCNKSC YCPK KKK
10576	40944	A	10637	1	2331	
10577	40945	A	10638	879	1353	SNNRTEGARGKRQLMSSP/STE PRVRLTIEGQETDFLLDTGAAFS VLISCLGRLSSRSVTIR*ILGQPV TRYFS/QPLSCNWETLLFSHAFL IMPESSTPLLGRDILAKAGAIYI NMGNKLPICCPALLVEGINPEV WALEGQFGRKNARPLQIRLK
10578	40946	A	10639	345	1996	
10579	40947	B	10640	97	1110	
10580	40948	A	10641	728	5171	
10581	40949	C	10642	1	2049	

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10582	40950	A	10643	1	2019	MNAHPEFRMAMKDGELVIWD SVHPCYTVFHEQTETFSSLWSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFIE NMFFVSANPWV SFTSFDLNVANMDNFFAPVFTM GKYYTQGDKVLMLAIQVHHA VCDGFHVGRMLNELQQYCDE WQGAQYPLRPEAHKGIQDIV KYLKAQGLGRKCSSPCNTPILG VQKLNGQWRLVQDLRLIN/EGF F*SSKLQAMQAMFAENSMSSV YSPTQEA EYWLPHGILQPADCF FEAASTSRSMWPRE/DWLSTT/S LTTWNMDFADFGTTIKQDFRLL GQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLESGH LDHGSHSYRRSDNSLDP RSHSC CRSDIGLGPRSHLYCRSDYQRE TTIP SMPVKGNQAPCMKS NNA LIVILGTVTLDAVGIGLVMPVLP GLLRDIVHSDSIASHYG VLLAL YALMQFLCAPVLGALS DRFGR RPVLLASLLGATIDYEIMATTPS WEDEEPIEHDSQQIIVQTYATR DDLLEVPLANPDNLN YADGSSF VENGIRRAGYAIVSDVTVLENS LAAVTLQNRQGLDLLTAEKCG LCTFSGKECCFYTNQSGISSPLE DTTTAGPFLHPIQQEVARAIIGQ FPTAFGVSCLEGR LRGEASWTS
10583	40951	A	10644	803	1171	
10584	40952	A	10645	1	2148	
10585	40953	A	10646	1094	3886	SNDRTEDDCGKH PFMSSP/TEP WVCLIIEGQEIDFLLD TGTTFSV LIPCLGRLSSRSVTIQILGQPVT RYFSHLLSCNWETLLF SHAFLV MPESPTPLLGRDILAKAGAIISM KTGNKLPICCP LLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSSPCNTPILG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYTLLSQVP EEA EW FTVLDLKD
10586	40954	A	10647	762	1298	

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10587	40955	A	10648	893	2165	GPRGTGPKGKARSEKGRSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVVYKDILKKIVQRETS HPLIHVRYAEAITGRRTAPEDK GSLGRDMLAKAGAIYMNMGN KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQRQYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPI LGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEA EWFP VLDLKDAFFCIPLHYDSHDSQF LFAFEDPTDHTSQLIWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSEASCQ QATLDLLNFLANQGYKASRSK AQLCLQQVKYLGLILARGRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC*LWIPGYSKIARPLYT
10588	40956	A	10649	2	403	
10589	40957	B	10650	51	1038	
10590	40958	A	10651	581	1128	SPCRAQRHSCMWGLWQQSPCS PGSWQDSSPAQSGPPR*PFSVP SSPWCLPSTWPLSPSPLPASWR RKTSAPSLLSLATAGPP*AGVC E/AKTPKKKYSDDDDEEESEEN SRDSEDFSDDFSDDFVETRRR RSRRNQKRQINYKEDSESDGSQ KSLRRGKEIRRVHKRRLSSSESE GYFFIKS
10591	40959	B	10652	1	4296	
10592	40960	A	10653	2	447	KEKKRNKKKKTIGSPKRIQSPL NNKLLNSPAKTLPG/AC/GSPQK LIDGFLKHEGPPAEKPLEELSAS TSGVPGLSSLQSDPAGCVRPPV VKYCTDLIEEKDLEKLDLVIKY MKRLMQQSVESVWNMAFDLIL DNVQVVLQQTYGSTLKVT
10593	40961	C	10654	286	336	
10594	40962	A	10655	421	638	

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10595	40963	A	10657	1	888	MMNEKNLEKGLGVDSVDKDA MNAAIQQAIIKAQPSMSPKKAPP APAKEARNVVAVGTGGRGTHD RDPSEKPPRLQWFEQQA KLA KQQEEDSEEEEEEDLDGDVLEIG KSKIKVLAESVSDWEDIDSDEE LECEDTEAMDDVVEQDAEEEE AEEGPPLGAIPITDCLFCSHHSSS LMKNVAHMTKDHSFFIPDIEYL SDIKGLIKYLGTHSSSSNVCKGL WDLEKRPSIDLK/CRT*YSTKRH /CTR TLSASSHFILCQWFSVLS/P VHASTDQEIQEMHDDQSNPQN AVVREHCVGWGWGV
10596	40964	A	10658	1	1545	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRKVASMAP VTAEGFQERVRA\HGPSRRRRA RARP/LYCTVCSKKFASFNAYE NHLKSRRHVELEKKA VQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEEEDLDGD VLEIGKSKIKVLAESVSDWEDI DSDEELECEDTEAMDDVVEQD AEEEEAEEGPPLGAIPITDCLFC SHHSSSLMKNVAHMTKDHSFFI PDIEYLSDIKGLIKYLGEKVGVG KICLWCNEKGKSFYSTEAVQA HMNDKSHCKLFTDGDAALEFA DFYDFSWRLAVGGHDWVERLT ASHYFYGYYPGARVGHRSMLR YYKQRFGLSRAVAVAKNRKAV GRVLQQYRALGWTGSTGAAL MRERDMQYVQRMKSKWMLK TGMKNNATKQMHFRVQGSQK EIQIFHSSEIDGIATAVEDDFASP TPTKDAKN
10597	40965	A	10659	3	943	

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10598	40966	A	10660	1	2427	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRKVASMAP VTAEGFQERVRA\HGPSRRRA RARP/LYCTVCSKKFASFNAYE NHLKSRRHVELEKKAVQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEDLDGD DWEDIDSDEELECEDTEAMDD VVEQDAEEEEAEAGPPLGAIPIT DCLFCSHHSSSLMKNVAHMTK DHSFFIPDIEYLSDIKGLIKYLGE KVGVGKICLWCNEKGKSFYST EAVQAHMNDKSHCKLFTDGD AALEFADFYDFSWRLAVGGHD WVEVEGRIRGCGSREDNECLL VCNFSVIGVAIQITRKGRTPIRA EELPSEKNLEYDDETMELILPSG ARVGHRSLMRYYKQRFGLSRA VAVAKNRKAVGRVLQQYRAL GWTGSTGAALMRERDMQYVQ RMKSKWMLKTGMKNNATKQ MHFRVQMDCRGIAVLVFKAPS FYLIMAPKHKSGDAGDSNMPK GSRKVLPLSEKVKVLKEKKLY AEVAKIHGVKLQTFGVSVTAH KGSVDPKSEQQQDLLQRVKEQ SFHSVEADPAAEGAGSGLSQLR KGLPQCSSLNGSSSATKVGAQ AEEAPRASEGCEGCQHAVTSQ
10599	40967	A	10661	3	658	GTKGWAFPTDCLFCSHHSSSL MKNVAHMTKDHSFFIPDIEYLS DIKGLIKYLGEKVGVGKICLWC NEKGKSFYSTEA VQAHMNDKS HCKLL\QGDAALEFADFYDFR SSYPDHKEGEDPNKAEELPSEK NLEYDDETMELILPSGARVGH RSLMRYYKQAIWLKKNLWQLP KIRKAVGRVLQQYRSPGIGLGS TGAALMRERDMQYVQRMKSK MGC
10600	40968	A	10662	1	221	MNPLANSTLTDVHPHFIFKQMA ELDRDMDEAGNHHSQQTNTRT ENQTPHVLTHK WELNNENTRT QGREHHTSEEFIAIQPEYYQKE KSNSDINLEGTSYWTENHCSGI YKVINCLESEIHSEEN* CQN*IFL SDNIQVELR* IPLMCDVPCVSV CSHCSTPTYE

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10601	40969	A	10663	1	1815	MHEAGNHHCQQSNTRKENQTP DVLTHK WEGFDQLRLEGLLCD VTLMPGDTDDAFPVHRVMMA SASDYFKAMFTGGMKEQDLM CIKLHGVSKVGLRKIIDFIYTAK LSLNMDNLQDTLEAASFLQILP VLDFCKVFLISGVTLDNCVEVG RIANTYNLTEVDKYVNSFVLKN FPALLSTGEFLKL PFERLAFVLS SNSLKHCTELELFKATCRWLRL EPRMDFAAKLMKNIRFPLMTP QELINYVQTVDFMRTDNTCVN LLEASNYQMMPYMQPVMQS DRTAIRSDTTHLVTLGGVLRQQ LVVSKELRMYDEKAHEWKS LA PMDAPRYQHGI AVIGNFLYVV GGQSNYDTKGKTA VDTVFRFD PRYNKWMQVASLNEKRTFFHL SALKGYLYAVGGRNAAGELPT VECYNPRTNEWTYVAKMSEPH YGHAGTVYGGVMISSGITHD TFQKELMCFDPDTDKWIQKAP MTTVRGLHCMCTVGERLYVIG GNHFRGTSDYDDVLSCEYYSPI LDQWTPIAAMLRRQSDVGVA V FENKIYVVGGSWNNRCMVEI VQKYDPDKDEWHKVF DLPESL GGIRACTLTVFPPEETTPSPSRES
10602	40970	A	10664	1	1226	MNEIEFRLERTPVDESDD EIQH DEIPTGKCIAPFDKRLKHFRVT EGSPVTFTCKIVGIPVKVYWF KDQKQISKRNEHCKMRREGDG TCSLHIESTTSDDDGN YTIMAA NPQGRISCSGHL MVQSLPIRSRL TSAGQSHRGRSRVQERDK EPLQ ERFFRPHFLQAPGDMVAHEGR LCRLDCKVSGLPPP DMTWLLN GQPVLPDASHKMLVRETGVHS LLIDPLTQRDAGTYKCIATNKT GQNSFSLELSVVAKEVKKAPVI LEKLQNCGVPEGHPVRLECRVI GMPPP VFYWKKDNETIPCTRER ISMHQDTTGYACLLIQPAKKSD AGWYTL SAKNEAGIVSCTARL DIYAQWHHQIPPPMSVRPSGSR YGSLSKGLDIFSAFSSMESTM VYSCSSRSVVEDEL
10603	40971	C	10665	166	229	
10604	40972	B	10666	251	371	

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10605	40973	A	10667	79	1391	PWEGSAPATSPLGEDSAWGSA DGSESWSCRELLQPGDVLGESC GLTPPALPAHCIQEGCLPPLTQE LRCCQPPRMGRWALDVAFLW KAELTLGLELLYY\CFFIGINFY NKWLTKSF/HIFPLFMTMLHLA VIFLFSALSRLVQCSSHRRARV VLSWADYLRRVAPTAALREVA SLFRKPSEAEMLCPPARQGEA RELSQNPPIRAGEGRLQGHRQV ATVICAPAPFSVMGLSPQLQCI VGNFASRYTMTKSSAVLFILIFS LIFKLEELRAALVLVLLIAGGL FMFTYKSTQFNVEGFA\WCWG PRSSVAFAGPSPRCSCRRLNSAS RIPSTPCSTCSHSCS/WGLFPLFA VFEG\TGLLLRVLGSLFLGGILA FGLGFSEFL/VSSRTSSLTSLIA GIFKEVCTLLAAHLLGDQISLL NWLGFASASREYPSTLPS
10606	40974	A	10668	1	1129	MGRWALDVAFLWKA\VLTLGL VLLYYCFSIGITFYNKWLTKSF HFPLFMTMLHLAVIFLFSALSR ALVQCSSHRRARVLSWADYLR RVAPTALATALDVGLSNWSFL YVTVSLYTMKSSAVLFILIFS FKLEELRAALVLVLLIAGGLF MFTYKSTQFNVEGFA\WCWGP RSSVAFAGPSPRCSCRRLNSASR IPSTPCSTCSHSCSWGLFPLFAV FEGHLSTSEKIFRFQ\DTGLLR RVLG\SLFLGGILAFGLGFSEFL VSRTSSLTSLIAGIFKEVCTLL AAHLLGDQISLLNWLGFASAS REYPSTLPSKPCIPEVTQSPFQK PLVSVLLPVTLSDDSDAGSVPGG SAAVTPLGRCGGHLQSGWVGP
10607	40975	A	10669	566	1026	PVMPKLIYVIRTGKQLKISLGH VDFQTVPSFLQQLNV/WQTIKA SEHPDRNDCVAVLRQKRSLGS VENTSGKRKCWGGQSGFTTSE LEETEEDSDLSDYGDDVDGRK DALAEPCFMLIGEIFELRGKPQY QLEIWQVPTGTPDHLEEEANEK

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10608	40976	A	10670	1717	2340	GIDVQGKKNSFSLSSFLERLPRD FFSHQEEETEEDSDLSYGGDDV DGRKDALAEPCFMLIGEIFELR GMFKWVRRTLIALVQVTFGRIT NKQIRDTVSWIFSEQMLVYYINI FRDAFWPNGKLAPPTTIRSKEQ SQETKQRAQQKLENIPDMLQS LVGQQNARHGII/NKYSNALQE TRANKHLLYALMELLIELCPE LRVHLDQL
10609	40977	A	10671	181	399	NRVYVPIQIMKRKRKRVSIVLN VTGY*/RGM/RKPGLLNLAGSFL LSTSPTSSENSNRCLWLQIDPW EEGETYV
10610	40978	A	10672	66	535	CWWQDPLQRTQKSVTATSTK ID\ISNVKIPKHPADAYFKKQQL WKPRNRKLAGKLSTPAARDAP RARPPHEAPPPPPPELRYRVPP RPAPSSWRHPSGKGRRGPPGIG GRIVGERQLRTEYGNDRPGREG DPAPGCCGGARTLSLYGEIKLR VKF
10611	40979	A	10673	67	585	SAAKSEMAKVEKPDTEKKK PEAKKVDAGGKVKKGNLAKK KPKKGKPHCSRNPVLRGIGRY SRSAMYSRKAMYK\RKYSAAK SKVEKKKKEKVLATVTKPVGG DKVGGTRGVKLRK\MPRIYPT EDVPRKLLSHGKKPFSQHVRKL RASITPGTILILTGRHRGKRVVF
10612	40980	A	10674	2	282	CIALYCHLLNICKSVKAEMQNL GREFIVPGMDSATSLIWATK/DL MNAVIEAPEKKPLLKREKQDES QSEIKWASQKKHLNPVQALSEF KAMDSI
10613	40981	A	10675	2	2798	
10614	40982	A	10676	14	2858	PDWRETKQRPSASGLWNLALA QLAAEMTAVHAGNINFKWDPK SLEIRTLAVERLLEPLVTQVTTL VNTNSKGPSNKKRGRSKKAHV LAASVEQATENFLEKGDKIAKE SQFL*E*LLAAVEYVRKQGD MKTAAGEFADDPCCSSVEQGNM VQAA*TLASAVTCLLILADMG NVYTLIIQLKVVEDDILKLRNA GNEQDLGI*YKALKPEVNKVNI MAVKRQQELKDVGHRDQMAA ARGILQKNVLIFYTASRA
10615	40983	A	10677	1	4545	

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10616	40984	A	10678	1	1921	MAGLGMGEEGIPGGERWEHKR RAHIVSNHRITRTGTHPYTHSPY PHKDNVHTARREHKTQDLGTI RSVGHSSSEHTQHTTPDTPVPLV VIVCRVCYRPPHGETRAEYTRH RGQNRRTKFWVGKEEKNLAQ QERTEEQLANIARGGYVLKDC AGQPELIFIATGSEVELAVAAYE KLTAEGVKARVVSMPSTDAFD KQDAAYRESVLPKAVTARVAV EAGIADYWKYVGLNGAIVGM TTFGESAPAEELLFEFGFTVDNP LASRAVRLRLPFNNDQVEAAV GWKLAVERNHNGPTALILSRQN LAQVERTPDQVKEIARGGYVL KDSGGKPDIIILATGSEMEITLQ AAEKLAGEGRNVRVVSPLSTDI FDAQDEEYRESVLPNSVAARV AVEAGIADYWKYVGLKGAI GMTGYGESAPADKLPFFGFTA ENIVAKAHKVLGVKAGSHIPRK KYDVPGKKSFSPVKYSTIGSPSP ERPVSITTIPNSFVIITANRVLHC NADTPEEMHHWITLLQRSKGD TRVEGQEFIVVEKLIRGLAMED SRNMFAL/S*IQRPRRQSH*KSN RRS*CLSQV*KRASW*AFTNI* WPD RHGLRKYSF/WSPGNIHHL RHCRLM*VVRLLLRLLNAVYE
10617	40985	A	10679	1	2940	
10618	40986	A	10680	2	404	
10619	40987	A	10681	2	546	WCPHRWRPHTLTPTAAPAVTK SPEATHLYGQVSWNSQNLHLE GQLQSASLQGSFMLK**GDPLD F/VMSPPRPLFERLKARISQSTK TFTPCERLEKRRTSFLEGLRRS FRTGSVVRQKVVEEQMLDMWI KEEVSSARASHIDKWRKFQGMN QEAMAKYMALIKEWPGYGST LFDVEGTD
10620	40988	A	10682	1	555	
10621	40989	A	10683	1	627	

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10622	40990	A	10684	1	7232	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKERCETAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGLTDVGLID SVCASDSPDRPNFSVIITANRVL HCNADTPEEMHHWITLLQRSK GDTRVEGQEFIVRGWLHKEVK NSPKMSSLKLKKRWFVLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERA
10623	40991	A	10685	1	2146	IDSVCASDSPDRPNFSVIITANR VLHCNADTPEEMHHWITLLQR SKGDTRVEGQEFIVRGWLHKE VKNSPKMSSLKLKKRWFVLTH NSLDYYKSSEKNALKLGTLLV NSLCSVVPDEKIFKETGYWNV TVYGRKHCYRLYTKLLNEATR WSSAIQNVTDTKAPIDTPTQQLI QDIKENCLNSDVVEQIYKRNPIL RYTHHPLHSPLLPLPYGDVNLN LLKDKGYTTLQDEAIKIFNSLQ QLESMSDPIPIIQGILQTGHDLRP LRDELYCQLIKQTNKVPHPGSV GNLYSWQILTCLSTFLPSRGIL KYLKFHLKRIREQFPGTEMEKY ALFTYESLKKTKREFVLSRDEI EALIHQRQDMTSTVYCHGGGSC KITINSHTTAGEVVEKLIRGLA MEDSRNMFALFEYNHVDKAI ESRTVVADVLAKEFLAATSEV GDLPWKFYFKLYCFLDTDNVP KDSVEFAFMFEQAHEAVIHH HPAPEENLQVLAHAHATSSIMQG DYTLHA\AIPP\LEEVYSLQRLK ARISQSTKTFTPCERLEKRRTSF LEGTLRRSFRTGSVVRQKVEEE QMLDMWIKKEEVSSARASHDK WRKFQGMNQEQAMAKYMALI KEWPGYGSTLFDVEVRTGCHV LGWAGCWHLRTWITAKFMWR EDKMEHFALSTSFFRAPKIVPLT PPFSSQFLFSCVNVNASVILGMN

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10624	40992	A	10686	28	561	MDIVQDATFVYATLQTAHYHR DAGLPVYLYEFEHHARGIIVKP RTDGADHGDEMYFLFGGPFAT GAKVPPDTPTGCPVSHLWMQT HPSIGWPQGAHQFLICYALPNE SLLLRLKQKQKE*GGRNPNDG NLPCWPRYNKDEKYLQLDFTT RVGMKLKEKKMAFWMSLYQS QRPEKQRQF
10625	40993	A	10687	148	444	
10626	40994	A	10688	1	1531	PLPGARRCLHEFWGQLASMYV STRERYKWLRFNEDCLYLN VYAPARAPGDPQLPVMVWFP GGAFIVGAASSYEGSDLAARE KEGLVFLQHRLGIFSFLSTDD SHARGNWGLLDQMAALRWVQ ENIAAFRGRPREILTLFGQS AGAMSISGLMMSPLASGLFH RAISQSGTALFRLFITRNPL KVAKKVAHLAGCNHNSTQIL VNCLRALIRAKVMRVSNM RFLQLNFQRDP EEIWSMSP VVDGVPVDDPLVLLTQGV KVSVPYLLGVNNLEFNWLLP YIMKFPLNRQAMRKETITK MLWSTRLLAKNSWGAEHGSK SLVGPPLAQLAPRPQNITKE QVPLVVEEYLDNVNEHDWK MLRNMMDIVQDATFVYATLQ TAHYH RDAGLPVYLYEFEH HARGIIVKPRTDGADHGDEM YFLFGGPFA TGLSMGKEKA LSLQMMKYWANFARTGNPN DGNLPCWPRYNKDEKYLQL DFTTRVGMKLKEKKMAFW MSLYQSQRPEKQRQF

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10627	40995	A	10689	138	1898	ICKYIMNDQWARQNCLHSPTY GPSENVLSSAESKPEIQLSPSCPL IFSSQQALSQHVLSHLSQLFSS LWAGNPLHLGKHYPEDQKQQ QDPFCFSGKAEWIEGEDSRLL FGRVSKNGTSKALSSPPEEQP AQSKEDNTVVDIGSSPERRADL EETDKVLHGLEVSGFGEIKYEE FGPGFIKESNLLSLQKTQTGETP YMYTEWGDSEFGSMSVLKNPR THSGGKPYVCRECGRGFTWKS NLITHQRTSHSGEKPYVCKDCGR GFTWKSNI LFTHQRTSHGLKPY VCKECCGQSFLKSNLITHQRAH TGEKPYVCRECGRGFRQSHSL VRHKRTHSGEKPYICRECEQGF SQKSHLIRHLRTHTGEKPYVCT ECGRHFSWKSNI LKTHQRTSHG VKPYVCLECGQCFLKSNLNK HQRSH TGEKPFVCTECGRGFT RKSTLITHQRTSHSGEKPFVCAE CGRGFNDKSTLISHQRTSHSGEK PFMCRECGRRFRQKPNLFRHRR AHSGAFVCRECGQGFC AKLTLI KHQRAHAGGKPHVCRECGQGF SRQSHLIRHQRTSHSGEKPYICRK CGRGFSRKSNI LRHQRTSHG
10628	40996	C	10690	160	294	
10629	40997	A	10691	3	82	SWACAIHPTGYLIEQAGG*WVT ARRD

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10630	40998	A	10692	1	1399	MLRRYRPDITSCHGSTAESKGG VVLDVSGRARPLRRTNSPSPT SLTSSKMSGLDGGNKLPLAQTG GLAAPDHASGDPDRDQCQGLR EETEATQVMANTGGGSLETVA EGGASQDPVDCGPALRVPVAG SRGGAATKAGQEDAPPSTKGL EAASAAEAADSSQKNGCQLGE PRGPAGQKALEACGAGGLGSQ MIPGKKAKEVTTKKRAISAAVE KEGEAGAAMEEKKVVQKEKK VAGGVKEETRPRAPKINN CMD SLEAIDQELSNVNAQADRAFLQ LERIKFGRMRRLHMQRISFIIQNI PGFWVTAFRNHPQLSPMISGQD EDMLRYMINLEVEELKHPRAG CKFKFIFQGNPYFRNEGLVKEY ERRSSGRVVPFSTPIRWHRGQ DPQAHIHNRNREGNTIPSFFNWFS DHSLLEFDRIAEIIGELWPNPL QYYLMGEGPRRGIRGPPRPQVE SARSFRFQSG
10631	40999	A	10693	3	441	
10632	41000	A	10694	190	2716	
10633	41001	A	10695	1	793	MARQKKMGQSVLRAVFFLVLG LLGHSHCGFPNTISIGKRKRASR RSRLSLTRDHCPGKAFAVFA ERSTGGEQEAGMLQGGEESRLF GSLWTLPWACSSWKLSQGD ADCLAAPGRITRARGAQS VVSG CRETGWGLFMRNTVQEHS AFR FAVQLYNTNQNTTEKPFHLNY HETSPIPLKSPPVSFCCALVVHS TLHRPSLCVSSLAHRSHIPSPH CHCKNCCCTPLQPTNVLDYA LFARSREKANVTCLKLPLTEVIPF
10634	41002	A	10696	2	2744	
10635	41003	A	10697	2	2740	
10636	41004	B	10698	47	7237	

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10637	41005	A	10699	426	2118	GFGHTVHAAEGGDFGGSWQG DSVLLCSTVDPGSWAASRGKG SPCRGPLCGCCPGRSS\QPSKVE VAVSCSCGALLGCMPPVVLA LEGCPRGVAAKGKGSPQAQTV RRSPSADQSLEDSPSKVPKSW FGDRSRARQAFRIKGAASRQNS EEASLPGEDIVDDKSCPCEFVTE DLTPGLKVSIRAVCMRFLVSK RKFKESLRPYDVM DVIEQYSAG HLDMLSRIKSLQSRQEPRLPVQ QGTRTGIDMIVGPPPPSTPRHKK YPTKGPTAPPRESPQYSPRVDQI VGRGPAITDKDRTKGPAEAELP EDPSMMGRLGKVEKQVLSMEK KLDFLVNIYMQRMGIPPTETEA YFGAKEPEPAPPYHSPEDSREH VDRHGCIVKIVRSSSTGQKNFS APPAAPPVQCPPSTSWQPQSH RQGHGTSPVGDHGLSVRIPPP AHERSLSAYGGGNRASMEFLR QEDTPGCRPPEGTLRSDTSISIP SVDHEELERSFSGFSISQSKENL DALNSCYAAVAPCAKVRPYIA EGESDTSIDLCTPCGPPRSAT GEGPFGDVGVWAGPRK
10638	41006	A	10700	1	774	
10639	41007	A	10701	124	815	HPGTAMDALNSMQNFLRGRPK TFKSLENAIEWSVKSGQIRNLES ARVSMVGQVKQCEGITSPEGSK SIVEGIIEEEEDEEGSESISKRK KEDDMETKKDHPYTWRJELAK TEKYWDGWFRGLSNLFLSCPIP KLLLLAGVDRLDKDLTIGQMQ GKFQMQVLPQCGHAVHEDAP DKVAEAVATFLIRHRFAEPIGG FQCVFPGLLVTCPPLLQHRAL LVNTFAPEAHC
10640	41008	A	10702	69	370	
10641	41009	A	10703	1	224	MCNTPAYCDLGKAAKDVFNK GYGFGMVKIDLTKSCSGVEFS TSGHAYTDTGKASGNLETKYK VCNYGLTFTQK*NTPAYCDLG KAAKDVFNGYGFGMVKIDLK TKSCSGVEFSTSGHAYTDTGKA SGNLETKYKVCNYGLTFTQK
10642	41010	A	10704	2	171	

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10643	41011	A	10705	1	740	MCNTPTYCDLGKAAEDVFNKG YGFGMGKIDLKTSCSAVEFST SGHAYTDTGKASGNLEPECKV CNYGLTFTQKRNTDNTLGTEIS LENKLAKGLKLSLDTILVPNTG KKSSELKASYKWDCFSVGSNV DLDFSGPTIYGWAVLVFEGWL AGYQMSFDTAKSKLSQNNFAL GYEADFQLHHTVTDGTEFGG SIYQKVNGIEMSINLA WTA/GSN NTHFGIATKYKLD CRTSLSAKA VVLGTRV GSC
10644	41012	B	10706	1	318	
10645	41013	A	10707	2	100	
10646	41014	A	10708	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSP VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSISSTEYTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKP DGS CIVSLKIDWIIERYQLPQSYQLY YFELAI PVGYFYPGSFSTASRIL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHISSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADV LIVPTPAELFDYTSALQ FFDMLRDLLKNVDLKGFE PDV RILLTKYSNSNGSQSPWMEEQI RDAWGSMVLKNVVRETDEVG KARLTWGIGTINVVCAADV LIV PTPAELFDYTSALQFFDMLRD LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAWGSMV LKNVVRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSISSTEYTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
10647	41015	A	10709	284	969	RVSRGRK WFFIALKRMPAMKK AMNLFGLSNVRTVHPEGFTV YISTHISFPSLSGYRTGLRSFGLV KQKKSPIRMPCVYTNPCVSIHP LWLRLRSPSARWLRCGSPSLG WTRTEPAPSPRGRTEKARIW EVTDR TVRTWIGEA V/AAHAA DGVTFSPVTPHTFRHSYAMH MLYAGIPLKVLQSLMGHKSIS TEYTKVFALDVAARHRVQFA MPESDAVAMLKQLS

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10648	41016	A	10710	2817	3297	AGCVRHRLSENRLDHRALPAA SKLPAYA*LPPPLPAGRL*RIPH RQFL*HQI/RL/PTERRCLLTRT EKARIWEVTDRTVRTWIGEAV ARLAADGVTFSPVPTPHTFRHS YAMHMLYAGIPLKVLQSLMGH KSISSTEVYTKVFALDVAARHR VQFAMPES
10649	41017	B	10711	1	963	
10650	41018	A	10712	1	1296	
10651	41019	A	10713	1	1167	
10652	41020	A	10714	349	3195	
10653	41021	A	10715	163	864	
10654	41022	A	10716	576	754	
10655	41023	A	10717	1	1449	
10656	41024	A	10718	1422	1600	
10657	41025	A	10719	489	726	ISCCSFFSPRPHVTFRHSYAMH MLYAGIPLKVLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAVAMLKQLS
10658	41026	A	10720	1	1596	
10659	41027	A	10721	1	1572	
10660	41028	A	10722	2	100	
10661	41029	A	10723	561	804	TLRQTKPDNSADPPHTVFRHSY AMHMLYAGIPLKVLQSLMGHK SISSTEYVYTKVFALDVAARHRV QFAMPESDAVAMLKQLS
10662	41030	A	10724	1	867	
10663	41031	B	10725	1	825	
10664	41032	A	10726	1	942	
10665	41033	A	10727	2	100	
10666	41034	A	10728	39	359	RILGKGAGQTRAESLVWGRGV PARCC*PGGPFLVPGPPP*VR/H LSYARPM/L*PGIPLKVLQSLMG HKSISSEVYRKVFALNVAARH RVQFAMPEFDAVAMLKQLS
10667	41035	B	10729	41	724	
10668	41036	A	10730	1	1023	
10669	41037	A	10731	1	1314	
10670	41038	A	10732	1	1128	
10671	41039	A	10733	892	1611	
10672	41040	B	10734	78	1099	
10673	41041	A	10735	1	936	
10674	41042	A	10736	766	1056	
10675	41043	A	10737	1	1422	
10676	41044	A	10738	1214	1721	

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10677	41045	A	10739	2592	3233	RWGRWRTGGSSRSEPTMELRA PAWPRGRPGQGGARPAGSELR GNATAPSPACLCRNILCRMES PNTDGKRPETGSNKRKGAGDK WWKIKTGNIRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSVPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKVISSTDFYTKVFALDVA ARHRVQFAMPESDAVAMLKQL
10678	41046	A	10740	6323	7130	
10679	41047	A	10741	319	522	RNTRYWVINSISVIPSSALISKR SPRLMAKKTAFHFLGISRTSVAE FTFTRSGISRDCVKGAGAADR RPNAPPRAEFQSGWFLIMECFA R*VGDPQL/TA/HFDAV/RRE/IM PL/PREG/KTL/QTEVREMPKRC AVFLAINLGDRFDIKADEGGIT DIEFITQYLVLYAHEKPKLTR WSDNVRILELLAQNDIMEEQEA MALTRAYTTLRDELHHLALQE LPGHVSEDCFTAERELVRASW QKWLVVE
10680	41048	A	10742	2	640	
10681	41049	C	10743	1	2358	
10682	41050	A	10744	1264	1894	RGDKPQHIVTVHRADVVKQAQL FKQRRARHYHAFNMFFGAFEQL FNWRHARENFFPAGKQLCQMV VERADIFGNRHFIVVENHQHIR TDIARVIHRFKRHACGNRAIAN DTDGAAIFAFTAILYGIQFSCAS FYLFVVYEHGSLKTVGCPLQEV /WRTALESCKPAHIQLSGVLAI/S SIVMQSVNAMPSWSGYSSQA ASAARWLLARSLIC

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10683	41051	A	10745	872	3111	VLKPNHLTERKGC/GFACGRYG KLGA WELDYSPLDIIFLND CP MNAMTAGERKIDGRQFYLR LA QRIMHLFSTRTSSGILYEVDAR L RPSGAAGMLVTSAEAFADYQK NEAWTWEHQALVRARVVYGD PQLTAHFDAVRREIMTLPREGK TLQTEVREMREKMRAHLGNKH RDRFDIKADEGGITNIEFITQYL VLR YAHEKPKLTGWSDNVRIL ELLAQNDIMEEQEAMALTRAY TTLREPRFSRFSFLWGCSPGLGF DYLADL FKIDNSHGGRFKTVLL TFLPPALLYLIFPNGFIYGIGGA GLCATIWAVIIPAVLAIAKARKKF PNQMFTVWGGNLIPAIVILFVLP WFYFIPPGLICSLVYRASPPIS MPAKAVAYCVLRISGGDGSCD VICRGKVADRSKFWNP NWSKT HTEPTQQSQ TATSNR TSATTAE QRSDEKEGNNRTRHEEQRSQN ATQHKRRERATTTQKTCSETVT PTTMNMCNEPELRRHARVLP VLYIVQRRYDESHLRISISACNV CRTERHAVHTDETIHSTVVADC KERVAVMRLRLPLCAACRHIG DVIVYSAYVCEHRCMRL LATR RHYVVTLTTHLRRRLFLTEVNA RYVCIYDDEHSRSSTVTHAHPI DHQSAHYDTYVYDIGTVSYMR LNTSVRLIRRAHTCTSRALMD SHSKDGRPMDYASAVVTHPL
10684	41052	A	10746	1577	1668	TINPPELAFVKTVH*SPRICLGF I HIFLLN
10685	41053	A	10747	486	674	HWWKNWRRCWIPVIWH*RRSR TIWRCKK WITASTLLSRSSPSK LPPCMSGFQPVVAGRKR
10686	41054	A	10748	254	396	ADDQIPH SKTHLKL SLEVEENQ Q*EI*RPLLQ*GGMSVPRCVHG RSG
10687	41055	A	10749	3	674	ISAE LNRPFAIRGDLG/VVWERQ KQETGWR SWVP/ WPHVHAEDII LGNPPDI/PEVTMVHLPRVEATL /APLALLTKTVWLPWIKLESPRI RFQFSHHVRRAVLCEDAYYKL TLAQVEKLKNGGKVIASDELM TKFRIPNTLEFCAPVMADAPAI ALLRLSLACDLAQAMMPAFH KPISSSFVNDYAGTSFACAASD MDERRMLNAPLSRLTLVEKL RRCWIPVIRH

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10688	41056	A	10750	1	1755	
10689	41057	A	10751	1	1662	MSKPKYPFEKRLEVVNHYFTT DDGYRIISARFGVPRTQVRTWV ALYEKHGEKGLIPKPKGVSADP ELRIKVVKAVIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNIAISVDPE KAASALELSKDRRIEDLERQAL SKPDKYADVKKRISEIYHENRG RYGYRRVTLSLHREGKQINHK AVQRLMGTLSLKAAIKVKRYR SYRGEISSTTKLFLTAFRMIVVA IILIAITFDWNRLKPTINQKVS AE LNRPF AIRGDLGVVWERQKQE TGWRSWVPWPHVHAEDIILGN PPDIPEVTMVHLPRVEATLAPL ALLTKTVWLPWIKLEKPDARLI RLSEKNNNWTFLNANDD/NKD ANAINRRHGRFGWIIFFSIKGG S PLMTNDIHGSLVYTTGKPRPKL EGDVESRQLRLADLGPLIGVDS GKGAEKSKRSEQKKGEKSVQP AGKVLPYDRFETDKWDVMDA DVRFKGRRIEHGSSLPISDLSTH I ILKNADLRLQPLKFGMAGGSIA ANIHLEGDKKPMQGRADIQAR RLKLKELMPDVN
10690	41058	A	10752	1	477	SELGHAGLNGDILVWNPVLED AFELSSMGIRVAD\ADTLKHQLA GDEDRLLEWHQALLRGEMP QTIGGGIGQSRLTMLLLQLAHI GQVQCGVWAAAVRESVPSLPL QLFHFTRHVVRQPLSDKIRNHQ RIGIKPPALQAFHNGAKTTGKI GADTKLLA
10691	41059	A	10753	414	794	RPSPLPTGLGDTGLGFLPRFIEM EKL PFDVAEAEQELQEGPLPEY SGPGLALAKWG\LG\LKQVVM ASLFVALFLPFGR\AQELSLACL LTSLVVTLLKNINSMTAGILVC LVTTVSPGLIKVLIYDQ
10692	41060	A	10754	88	227	
10693	41061	A	10755	26	261	
10694	41062	A	10756	164	361	
10695	41063	A	10757	1347	1656	RVGRPGHRASAQSGGNPQNHR RLGEPVSARHPAYLSTGSGDAA AARYRRSA*SLRR*SRASSHPPE RAGTPVAPGTIDIFRWRTAARQ HRPRLYRRLPHSAA

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10696	41064	A	10758	2096	2248	RLIGLHGQNSRSVPQLPMESAS VA*RCTAALDGGVSSTSTRWLF ASCTRL
10697	41065	A	10759	1	2240	
10698	41066	A	10760	1	1082	MEHERYVGISNMLKPELYLA VGISGQIQHMGANASQTIFAI NKDKNAPIFYADYGIVGDAG ALMSEDI FDAIIVGAGLAGSVA ALVLAREGAQVLVIERGNSAG AKNVTGGRLYAHSLEHIIPGFA DSAPVERLITHEKLAFMTEKSA MTMDYCNGDETSPSQRYSVL RSKFDAWLMEQAEEAGAQLIT GIRVDNLVQRDGKVVGV EADG NRVMKKILTTPIKAEDLQDIRV GDVIYL*RHRSLSVG*RAESGG* RSGRIVKRTG
10699	41067	A	10761	987	1191	
10700	41068	B	10762	1	1506	
10701	41069	A	10763	204	527	GPDRQCIGPLAE*NTGNSHCAA LRQQRAEGRWWQKPHGEWRA ATADGRTYAAISAQATAPQSPA GQSTMPRPRLSTPALVMPA VTVDRQITPASVSTTKQAISA
10702	41070	A	10764	1041	3024	
10703	41071	B	10765	1	763	
10704	41072	A	10766	729	989	HLTRQGIPTDLQLRVLSVRRKT NKQKGHPHRKRICTSPSSKTKS R*NHKDGEKTEQKNWKL*NAE HLSSSKGTQFLT SNGPKLDGE

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10705	41073	A	10767	89	1755	LSEGKLTNRKDIHTKTPSVRHH HQRPKCWKFWPGHSGRRRK*R /CIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASKRIKYLGIQLTR DVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIAKSILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNKQWGKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSTIK TLEENLGNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKLKSF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKWVKDTNRHFSKEDIYA AKRHMTKCSSLAVREMQIKT TMRYHLTPVEEVVRAEMAKTR RCQNVKGASEEGIRALALFLIN LTVHMEGNHIDGDIEIQTNRSPL QAPGEICESFTALMAMQLLSKL FWS
10706	41074	A	10768	533	760	
10707	41075	A	10769	1067	1225	
10708	41076	A	10770	1080	1250	SSGLHSWDARLVQYTQINKYN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10709	41077	C	10771	55	1842	
10710	41078	A	10772	1575	1745	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10711	41079	A	10773	2798	2871	
10712	41080	A	10774	601	876	
10713	41081	A	10775	1194	1421	

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10714	41082	A	10776	587	1683	GWKFWPGQSGRRRK*/R/CIQLG KEKVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSGYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLKEIKEDTNKWKNI PCSWVGRISIVKMAILPKVIYRF NAIPIKLPMTFFTELEKTTLKFI WNQKRARIAKSILSQKNKAGGI TLPDFKLYYKATVTKTAWCWY QNRDIDQWNGTEPSEIMPHIYN YLIFDKPEKNKQWGKDSLFNK WCWENWLAICRKLKLDPFLTP YTKINSRWIKDLNVRPKTIKTLE ENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLSFCT AKETTVRVNRQPTTW
10715	41083	A	10777	1260	2176	SSGLHPWDARLVQYMQINQCN PAYKQNQRQKPHDYLNRCRKG L*QNSTTLHAKNS/AIN*CWKF WPGQLGRRRK*/R/CIQLGKEEV KLSLFADDMIVYLENPIISAQNL LKLISNFSKVSGYKINVQKSQA FLYTNNRQTESQIMSELPFTIAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWKNIPCSWI GRINIVKMAILPKVIYRFNAIPIK LPMTFFTELEKTTLKFIWNQKR ARITKSILSQKNKAGGITLPDLK LYYKAIVTQNSMVLLPKQRYR PMEQNRALRNNAAYLQLSDL
10716	41084	A	10778	3813	3983	SSGLHPWDARLVQYTQINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10717	41085	A	10779	1312	3348	
10718	41086	A	10780	1636	1815	
10719	41087	A	10781	67	403	KFLCRPPIIRPPKTFNTLIVLARR CIQCFRFFDIACFNRVGKGFGV GHQLRGFRHDIRGFAQWTHLP DGCAFRDRCYAAGAQCENVPA LTACGDNNQR/GACWYPQQEV
10720	41088	A	10782	506	915	WASVKSPVPCWNCWISHRRRV TCRHVRFAPGFNLAKAV/QGAA LVITGKGRIDSQTAGGKAPLGV ASVANQFNVPVIGIAGVLGDGV EVVPQYGIDAVFSILPRLAPLAE VLASGETNLFNSARNIACAIIKIG QGIKN
10721	41089	A	10783	1	906	

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10722	41090	A	10784	2	597	SILKVACDVDNPLVGARGAAA VFGPQKGATPEMVEELEQGLQ NYARVLHQPEINVCQMAGIA GAAGGMGIAAPVFFNGDIKPGI EIVLNAVNLAAQAVQGAALVITG EGRIDSQTAGGKAPLGVASVA KQFNVPCDLGLLAYVGDGVEV VHQYGIDAGFNILPFLAPLAEV LASGETNLFNSARNIACAIGQ
10723	41091	A	10785	1	1140	
10724	41092	A	10786	13	628	LLIPARPPGINPYYWKVSEANLI RYFQQVGDSVTLPMVLYNFPAL LTGQDLTPALVKTLADSRSNIG IKDTIDSVAPHLRSMIHTVKGAAH PHFTVLCGYHDHLFNTLLGGD GAISASGNFAPQSVNLLKAW RDGDVAKAAGYHQTLLQIPQM YQLDTPFVNVKEAIVLCGRPV STHVLPPASPLDEPRKAQLKTL LQQLKLW
10725	41093	A	10787	3	1185	EQSGRGARDGGARDGVREGG\ SWTQQHGLPLTKVELATVAEY PVCLWQRLTLSPQYGSIP/RGD QSDGWKVDYNGPFSWKGQH FVINGIDTCGCKFAIPVCSASA KLLPMSSQNVYHRDILHRIDSE QGTHFRVKEVQQWALGRGFY WSYYISHHPEAAGLVEQCNGIL KTPSQFQMGRNTLQGWGKVLP SLEGCAFSSSKSNLCSVVLKVF VPKEGMVPPGDTTMIILNCKLR LPPMPLNLLASKEVTVLD/YQG EIGQLLHNRGKEECVWNTGDC LTYLLILPSSVIKVKKEKPQPHG RTINGPDPSGMKTWVTPPAGA VFLIGSWLRYDYGYTWRAAS SQMLDRKGMNLAASNLFIHIGILG IFVGHFFGMLTPHWMYEAMTY GSCDTDNANV
10726	41094	A	10788	396	504	WKRLERRAIQGDSPVHKNARA GELDE*AATRAIPG
10727	41095	A	10789	24	611	EILPVPGPVVIWA/AIFRRIAGES WSAIVISGLSIARHAQQKRIITFT ASLAARLEIALKIVRNADGTES ASEQLYQVVGAGCKMPWQSE AMKDVLCIDKRRMLMRRTGGTE TSKYPEEKKSTEIPVAASERGG AQSLNQCATEAVVLTRVDSHL KVGDSLSTTSFLKKFAARFGG QLEKALGLGSMQAFSDIRGL
10728	41096	A	10790	212	578	

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10729	41097	A	10791	1	1707	
10730	41098	A	10792	3	313	NAE/TVKMFTTSSKEDATFGL/G WRVNGNATMTPTFGT/LASPQT YGHTGSPPLPPICPVRPPGYLRR LSPRFPRLFGISLPQRPPGILERS LQRRRNPSGWRRRNQ
10731	41099	A	10793	1	1992	MDVQSAADDTGLPMLVVVRGPF NVVWQRLPAALEKVG MKVTD STRSQGNMAVTYKPLSDSDWQ ELGASDPGLASGDYKLQVGDL DNRSSLQFIDPKGHTLTQSQND ALENAILAVIRHEICLSDVVRIR ASRRFDKTSCTPDRQKILKLG LLPAGWLADVDPRLVGVMNV WTLVPAALFFFGAGMLFPLAT SGAMEPFPFLAGTAGALVGGL QNIGSGVLASLSAMLPQTGQPG VYDDLNGIVDRAVLAAAGDAD VASGAARLSARHSIVISSMGE RCCFIRSRTICGFLAAGVGLD QLAPDFATPVIRELLALLLCLFS GGLAMYGYLRWLRNEKAMRL KEDLPYTNSLLIISLILMVVAVI VMGLWIPPTCIVDDRMAYIPG LADSPNDTIKGKNTLRISDLLH HSGGFADPQYPNKA VAGALY SQDKGQTLEMIKRTPLEYQPGS KHIYSDVDYMLLGFIVESVTGQ PLDRYVEESIYRPLGLTHTVFN LLKGFKPQQIAATELNGNTRDG VIHFPNIRTSTLWGQVHDEKAF YSMGGVSGHAGLFSNTGDIALF NAETVKMFTTSSKEDATFGLG WRVNGNATMTPTFGTLASPQT YGHTGWTGTVTVIDPVNHMTI VMSLNKPHSPVADPQKNPTMF
10732	41100	A	10794	2	137	NCLSPVSAN*WPAKTGRPIPLPS ATVTASTRNVLSKHWRIWVST VC
10733	41101	A	10795	271	553	ATQRQDLHFVRSPGDAVYTQIT PEAADAVVARNPDTAQHLHC/ VYP/HTSNAALAKYLHIAASP EVMVPLSAFHAASYSMFFMEF NLIAMWANFS

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10734	41102	A	10796	1	747	MLLGLHSLAAFLQRESFSGKQS WGCQLAALLQRRITKMTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGTRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVITYRITKGEDLREQG YMGLHTVGRGSESPVLLALD YNPTGDKEAPVYACLLGDIITY RNGKKVEVMNTDAEGRLLV
10735	41103	A	10797	444	548	
10736	41104	A	10798	951	1648	TTGRFPPSVQDSFVNESSRMGL PDEFTLQREFERARQQGALAQ W/IAAFEGGFTGIVATLDTGRPG PVMAFRVMDALDLSEEQDVS HRPYRDGFASCNAGMMHACG HDGHTAIGLGLAHTLKQFESGL HGVIKLIFQPAEEGTRGARAMV DAGVVDDVDYFTAVHIGTGVP AGTVVCGSDNFMATTKFDAHF TGTAAHAGAKPEDGHNALLAA /AQATLALHAIAPHSEGASRV
10737	41105	A	10799	1495	2282	FDRHVGEFFLNQLETTNSLAKL HALIGVARRIFKGAHRRTVVGE GYQETFMVELFFDAVKA VTFPT EHVFLVQFHVVKGDFTAAHTQ TELFKFGHFDARFAHINKPFGV DRFVRRSPVARHHHDVRGVGA AGNKTLTITKINLTISTGISRFQA THVGARARFGDR*VRTDSTTTV GHRDCIITGGHR/HKSFQPGHEA PQAVPLPGRFHHH*PSHDHCR* LVSLAGAA YRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD
10738	41106	B	10800	1	3618	
10739	41107	A	10801	3	490	TGIVATLDT/GRPGPVMAFRVD MDALD/LSEEQDVSHRPYRDGF /ASCNAGMMHACGHDGHTAIG LGLAHTLKQFESGL/HGVIKLIF QLHRYAAHAGAKPEDGHNALL /AAAQATLALHAIAPHSE/GASR VNVGVMQAGSGR/NVVPASAL LRQPTRSALNTTQQLNAR

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10740	41108	A	10802	1	513	MGIESLQAFILRSAGALGVWVY TFLEIRILPTGLHHFIYQGFISSP AAVEGGIQMYWAQHLQEFSL AEPLKSLFPEGGFALHGNSKIFG AVGIYLAMYFAAAPENRVKVA RLIPTPLAAMLVVIPEPLAEFTF LFISPILYAVHAVLTASMSPPM YLPGVVGNMGEGKID
10741	41109	A	10803	1	4941	
10742	41110	A	10804	1	1083	
10743	41111	A	10805	1	1363	MPVRKNMIMNEGNITPTNGC RIRASCGVPMICINQLKDGNKK PSPLTAARMKQKAILFLIRTVR TDTHVVEDTGRKGSRKANSRE RFPDAFPEFHGFADFRVLRQAM IQIWLVSVMQHVHNVCTTDAC RIVQTRIVVTAGFQLSNASLVA MRRWVYRVRRIQYRRTTQTAV FHSTHGNYREGQPVGTLLDDRY KANENVELVHYAQPLLNEADS LAKVMPSDIPLKQRRWLGLQM LEGDIYSRAYAGEASQHLDAAL ARLRNEMDDPALHIADARYQCI AAICDVVSNTLTAEPSRFTTAV DKIVLNRFLGLPIFLFVMYLMF LLAINIGGALQPLFDVGSVALF VHGIQWIGYTLHFDPDLTIFLA QGLGGGINTVLPVLPQIGMMYA CFSSFLKTPALACREIFVPLMRL RVNLRWYPPVL*RISWWTNSRI PTTFSTRGSACWRATPAK
10744	41112	A	10806	199	1083	RLFEHPRLGVA AVENGALGKR SAVVLPGFDAVNHKTRFIEFVK SAIEGNRLTVRAIGPQFFTQTPV IVFNQGVSGAQNIAGRAVLLQ TNSFGTGEIHKETLNILHLRPAPA VD*LVVITDDHHFAGVARQQA DPRVLNVVGILEFVHQDIGKTF AVVLQDMRLVKPQLVSAQQQL GEVHQARAVTRFLIRLIHLLPGL LHRITVALNMMRTQAFIFLAVD VPHCLPRRPLLVEVHGFDQTQ KVAAWRGHRFALFVIKAVEQV RNVHWHRRVKIGWAEKRNAL RQKAGNFQMRQ
10745	41113	A	10807	49	273	DFLGRGAFNVINIGAWASRPVQ GSTVDLSHGLHLVLHLKNNL*F YGFDSHFLKSFFYKGTSISIQVE VGISQGNL
10746	41114	B	10808	91	2183	

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10747	41115	A	10809	8	219	FSLWPL/KKFSNRFLKKKPMEF GSWTTREILIASFAGVRGAILTA GVLSIPLLLPDGNVFPARYELVF LAAV
10748	41116	A	10810	84	509	
10749	41117	A	10811	3	163	ENTTWLYAD*NAGRDADFGHA KRKWTLWLAILAAVATAMAN RQPGAGLFALFT
10750	41118	A	10812	1	707	MGWRMGIWLRVFTVAKHLQR AESDQIGFRLKEHCWKRYAVR HPVKDVSGFSPVLTVMRAPQ SN/PARRTVGWLRMFRLRKR/ RKPRPLPLSPLHMDV/HAGNLV HSASGLKLIDW/EYAGDGDIAL ELAAVW/VENTEQHRQLVNDY ATR/AKIQPAQLWRQVRRWLP/ WLLMLKAGWFEYRWRQ/TGD RQFIRLADDSWRQLHRSNKESS RELVARLRVFAQSSGGAVDQE GGRVQCFREGL
10751	41119	A	10813	1	227	SFINVERYRAEPQTADAAPLKR GAFGSWLPEPDHYAED/DHQQ YLHKNPYGYCGIGGIGVCQAY KIVQIQYIARTA
10752	41120	A	10814	1	283	
10753	41121	A	10815	315	569	
10754	41122	A	10816	65	580	SDRS*IPVRPTHRSNGNRHDGSS GYCRCYG*HG*HRGIRYRCWPE KSQTRSGLLPLTVNYQERTYA AGRIPGSFFRREGRPSEGETLIA RLIDRPIRPLFPEGFVNEVQVIA TVVSVNPQVNPDIVAMIGASAA LSLSGIPFNGPIGAARVGYNDQ YVLNPTQDELKESK
10755	41123	A	10817	235	1236	TDHDGRNDTQRIGSGERNRPF NANTAHHQCRFAGFALFCGEIF TTNQRROPHPQRRDNTNTHGSD GHHGINTLSNANQHEGIGHFVN RTAHIERQHQT DHRQHNNAA NSGTEVSQ*AR*HA AV*RYVAE REIHSGDRCGKRNSAHKIMPG WWCALPDTAPSLSKVVFVKGC PHLCPWCANPESISGKIQTVRRE AKCLHCAKCLRDADECPSGAF ERIGRDISLDALEREVMKDDIFF RTSGGGVTLYRGEDPAEDARY AHTNQPRQNKAVVDDEATDV GGAGTVKLNRCQIARISRQDVI TVASRCEHGFCHPCDTVHRHD GDHTGTEDFVF
10756	41124	A	10818	1	400	

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10757	41125	A	10819	783	1116	SVLHLYYEQNTEHDTGRGYP KTLDIVPAFEASHLLWQSYENS WEQIFSASVGASWQKHGTDV LTQLGYGQRIIWNIDAGATL RWEKRPYDGDREHNLVVEFD MTFRF
10758	41126	A	10820	3	474	TCGE/AASIVDRIRGFFEPSSILV STLVLTLRPTGLLPLVTDLSLPM RLLPTEIMAGSPIRS/RDISLGDD PGINGQRAQGTWERWTVRADE PQAFHIEGVMFQIRNVNGAMPF PEDRGWKDTVWVDGQVELLV YFGQPSWAHFQFYFNSQTHKV GPRAVA
10759	41127	B	10821	93	786	
10760	41128	A	10822	191	748	GPATPRQPFKVLASLGRVLVQH GRWDAQHLHNAVHLVDLIGAT EEGLSGVHLHKDAAQGPVHNG QVVGCAQEHLR*AVEAALDIL VDPLAKLAGAAEVHNLGGAAL GVAQQDVFGLEVAVNDAAEQ AWPERAVPCRAAPASGSGSA RRRGSGCCAGGRTGCRTAAQIP STSGFRNMKCRFRCTI
10761	41129	B	10823	1	2724	
10762	41130	B	10824	116	2458	
10763	41131	A	10825	1	1317	

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10764	41132	A	10826	99	2052	NPADGRTGFTLCATGEALSSAT IAAAERRQALQEGCDDILS/HG DADMVSMAR/PFLADAELLSK AQSGRA/DEINTCIGCNQACLD Q/IFVGKVTSCLVNPRACH/ETK MPILPAVQKKNLAVVGAGPAG LAFANFIKQIPGKEEFYD/TL/ RYYRRMIEVTGVTCLK/NHTVT ADQLQAFDETILAVG/IVPRTPPI DGIDHP/KVLSYPDVLDRDKAPV/ SN/KVAIIGCGGIGFDTAM/YLS QPGESTSQNIAGFC/NEWGIDSS LQQADCDAPAKASKPGQGLGK TTGWI/HR TTL/LSRGVKMIPGV S/YQKIDDDGLHVVINGANQGS DMLRLQGELDSASRIGRRSAAP KLGSLNDGRCFINCHILDRLPY KGLVPACSWNGGSLDPLEGRP DEPHVEVLGIPPAAMLDAQAPRL ASTLNGCLGVAGPYEDERTQE GLPGPRDTAAEEVLGVQTGGA GSRGRVRGPQPADLPSASGPGA ACWSMSPPPDQPPCVLAHGFFR RTPPTSTQQRPAEQCFHSPAPLEL PLSSTSSILSFAEYGNAMAWLY RGKILPSGTPDDLKAQSANDGN PDPTMEKAFIQLIHDGIRSIAMS NPILSCRRYGRYQEWCLTIPAV FISAPYVRRYVRFHEHQEGGGV RQEATVREIPLAIAVIPNSRTPC
10765	41133	A	10827	1	525	DAMVSSWNRAAPNTIPTAAKA GGNYLSSLLVGSEARRHGYQE GIALDVNGYISEGAGENLFEVK DGVLFTP/PGFTSSALPGITRDAI IKLAKELGIEVREQVLSR/EKS LYLADEVFMSGTAGEITPR\RS GNGYSLAKGRCGPVTKRIQH ALQGVYSWVTPGYFESVRCTA
10766	41134	A	10828	8	573	REPAGENGPPVCDGAMLDLKA/ WGSECHQQLTGRDNQQIKRSIY LLPERAKLAELRLVIPGQVDY LQHIEELAAFIKGLGDVPVRLN AFHAHGVYGEAQSWASATPED VEPLADALKVRGTCRDPDKTRQ ASHQALCANCRRRERLIRPTV RHKPVGMIRRDKRIRHYAPTA GCGVNALSGLRFGTDL

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10767	41135	A	10829	1	479	SNATNGIEPPRGYVSIKASKDGI LRQVVPDYEHLHDAYELLGEM PGNDGYLQLVGIMQKFIDQSI ANTNYDPSRFPSGKVPMQQLL KDLLTAYKFGVKTLYYQNTR/G RR*RRTRRSGAVNPGTMGCESG ACKNPGYLRMPGCRRTPLIPA LPGFGFW
10768	41136	A	10830	1	443	MDSLMDMLASTQGRMDDQR VTVSSLPGFQPVGSKAYKPSRR PDKAFTPHPASQYQILHAPLVA AIVSGLTAARVVFVRLQQPSLG VLSNTSGCDATNVVGRQLQDNA SVSPGIVHTDSVIWRSCQVRRS AVHTLWRQKTRLFDAVDA
10769	41137	A	10831	1	323	MDLVTGSRKVIIAMEHCAKDG SAKILRRCTMPLTAQHAGHML VTELA VVRSFDGKMWLTEIAD GPTSQAQPAATYRIPLSNSRVR RRYRHRYYRYNLSIRKKRHRPL
10770	41138	A	10832	526	975	TPYPAYVQHVTPGRIRRGKRI RQCLPVLESRFHNTQKSRGETE GASGFSLQHHLGDSSRAAPGPY RVSTAAADSGGRAGSSAPSALV PRGC*GPSLAPAGRSQR*HRGG GQLSPAAPRTANKAAGLGPPA RLNFFIRAQCDSRINDITR
10771	41139	A	10833	1906	2049	PLSIIEADFRIWANAG*RMVAGI KPSIARVPLVLQVSALEVPEQC YRH
10772	41140	A	10834	1	808	MPKPNTRWSAWGLRRLKRKW SVARGSNLNRSVQYEFTGRGD RIGWVKGIDDNWHLTLFIENGR ILDYPARPLKTGLLEIAKIHKGD FRITANQNLIAGVPESEKAKIE KIAKESGLMNAVSPQRENSMA CVSFPTCPLAMAEAEERFLPSFID NIDNLMAKHGVSDEHIVMRVT GCPNGCGRAMLAEVGLVGKAP GRYNLHLGGNRIGTRIPQITRRI EHRANDARTHRKVAEAFTRFA LFRPAPYQFIKRRQDFRLVMFSI YMPVPS

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10773	41141	A	10835	248	830	HHYRKMNIQQSKWLIVTVCDG KLNWLLSGSKVCCTWMLCVQ/ SEPELAKAWIFANLLAAFLIDDI IQPSLDFPPRRAEITIAADGTISA LNPGDPANTVAPVGRLLVKA TGSEVQRGDDGIFRLSAETQAT RGPVLQADPTLRVMSGVLEGS NVNAVAAMSDMIASARRFEMQ MKVISSVDDNAGRANQLLSMS
10774	41142	B	10836	328	481	
10775	41143	A	10837	14	675	FRKLQVCWLPRPHLRPWWTCK PRWFGSCLRVFL/LERVI/GDV/ WGLRLWSALGVAFFG/WAFITS LQAKRGWMRIVPIILLAAALVS VRPLQDWAFGATHTAQTQTHL NFTQIQTVDELNQALVEAQGKP VMLDLYADWCVACKEFEKYTF SDPQVQKALADTVLLQANVTA NDAQDVALLKHLNVLGLPTILF FDGQQQEHPQARVTGFMDAET FSAHLRDRQP
10776	41144	A	10838	1	1413	GMALTYTALGLVVAAGLQFQ AALQHPYVLIG/LAIVFTLLAMS MFGLFTLQLPSSLQTRLTMSN RQQGGSPG/GAILLYIAQSGNM WLGGGTLYLYALGMGLPLMLI TVFGNRLLPKSGPWMEQVKTA FGFVILALPVNIAPGSLDKALNQ YAAHSGFTLSVDASLTRGKQSN GLHGDYDVESGLQQLLDGSGL QVKPLGNNSWTLEPAPAPKED ALTVVGDWLGDARENDVFEH AGARDVIRREDFAKTGATTMR EVLNRIPGVSAPENNGTGSDDL AMNFGIRGLNRLASRSTVLM GIPRPLRLRSAAAFSGSRFARQ HGCHCTWYAVVVRCVTDTS VGGVVNFVTRAIQDFGIEAGIL MSDLKHGSLVGACLGRLGPGA VLYLAVAVLGVRVRRGVVLVC PLGGTGLGYSCQGGAFQFAAS CFLGRYGVVQGVIVHVCFGPRSV FLDDCLRFDLPCLVWLSCPR

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10777	41145	A	10839	1	908	LLKPFHVIAIATGRSLAVFCMG RLRTICSHATPPASAI/LLYI/AQS GTWGGGGTLYLYALGMGLPL MLITVFGTRLLPKSGPWMEQV KTAFGYVILALPVFLLERVIGD VWGLRLWSALGVAFFGWAFIT SLQAKRGWMRIVQIILLAAALV SVRPLQDWAFGATHGTQTQTH LNFTQIKTVDELNQALVEAKGK PVMLDLYADWCVACKEFEKYT FSDPQVQKALADTVLLQANVT ANDAQDVPTSAPFISPPNALVAI IVQLRFGDFYNRVSKGSRPTVF GRTLKARRITLSEKSILKAKIH
10778	41146	A	10840	3	808	SSGGHGRRAAGRLQHPLLRVH VPVVDTSVPCSRQLQWHHLPL CPGQLQHGHFHGPWCFFPSG*G *GQGGRLPGSAVQERGCARYP GPHEVVCHVPLLPPAALLPLQR L*QLCRGL*PPLPLGQ/PTASGV ETIATSSCSCCHSVHTWWASWP SAWSTC*TTLRGWEPRTPPSRIL GSCGPHCRGDVDRGHVHPGE* AFQSLVPCQGTGPKGPMAPP*VG RGVSP/PGTRVEAALSCESPFA RQSMCFNLHTHSIDPKQSRRPY SDNVGKE
10779	41147	A	10841	2	646	CSWQPAVPTQPQAGPSAPRQG LPGHSRGAQPALVSPHKGLTPV PGTPA/PASTPPAPAGGGLPSP AAGAPPAHCPG/HPPAPATAAP VPGLCGPCPSLPACQTR/PPTH VNTKKRV/PG/VRPAARRPWP GCTWRGARTVTFLHQLNPGVN CQMLTVGRSGIRPTCTIASCSV NKLHPQMHPATQPHHRMALSP SHSEGPSHCWGLSLGDISPIPR
10780	41148	A	10842	3	550	

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10781	41149	A	10843	2	1132	LCLVMILYTRRRWCKRRRVLPQ PQKSASAEAAANEIHYIPSVLIGG HGRESLRNARVQGHNSSTLSI RETPILDGYEYDITDLRHHLQR ECMNGGEDFASQVTRTLDLSQ GCNEKSGMDLTPGGDGRKARL MNKYKDNIIATSPVDSNHQQAT LLSHTSSSRKRINNKGARMHV *H*GEGDSGTEAENDPQLTFYT DPSRSRRRSRGRNDRGGRNKTT LTLISITSCVIGLVCSSHVNCPLV VKITLHVPEHLIADGEPVLLRM GSQLDASDWLNPAQVVLFSSQ NSSGPWAMDLCARRLLDPCEH QCDPETGRREHRAAGNCQRDH ARAHSVWLGSPPYHDTSLRWS PMYTTMESAPHAFFPSVTADAE
10782	41150	A	10844	3	3935	HASGPGLKMALAGLCALLACC WGPAAVLATAAGDVDPskele CKLKSITVSALPFLRENDLSIMH SPSASEPKLLFSVRNDFPGEMV VVDDLENTLPYFVLEISGNTE DIPLVRWRQQWLENGTLLFHH HQDGAPSLPGQDPTEEPQHESA EEELRILHISVMGGMIALLSIL CLVMILYTRRRWCKRRRVLPQ QKSASAEAAANEIHYIPSVLIGGH GRESLRNARVQGHNSSTLSIR ETPILDGYEYDIT
10783	41151	A	10845	184	357	ALQGWSKNLHPEDIQLGKTPP P*QVAQEGGWSRRVGSdTWIL EEQPGSTTRRVSVGM
10784	41152	A	10846	226	609	VILSSFDLIKHGILLEISDSIQFRG CKRSRIPELGGLLELW*PGDCR QPRP\WRA\GRHLQPGSLGSLVS KHQLRGSRKTL/YSAFRKCHLL SVWEGKPLKI*RGDQVADSSQK KQLAADAHTPYRGGDI

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10785	41153	A	10847	20	1317	SSHQKQMLAPCFLGSLQNWQH HTAGK GK/WVLGTCAFGQLA ASGHMKETRADRSKKLFRHYT VGSYDSFDTSRGGRVRKPYAGF FPDLQDICDEQPRPLHSTLRPAC GGIQPGKQQPMPFAKTDTCASD KHVEKKLERLIHQAVSDAPEPS RVVKGIFIGGLPCARLWVVPYL MGHVQEVTMAEGYERASQATF REQMQEVPCCLQRSTGSSMKT GNKIRRVTDNVLTRSGPLINDIL SVAVDSSVSVLIWMHLFSSHPL GIVRYWGCMGISCKLLLLTRVC YLITPLDLERFPFPNTEQVTFPE RRVSVFLLPLSWCLDTRLPREP GCRSRDSFTHRVSFVSPTSG DVPGSHPFCDKPVRRGDDPYIR NDRGTLYSTLQFISTCVQVVG YGHLPGFKSDAAQAVPRLLSQ KRDQNHKEEITDGDERP
10786	41154	A	10848	1930	5781	RAKSPANIIMTGSNSHITILTN VNLNSPIKRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQADLIDIYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEITNYLSDHSAIKL ELRIKNLTQSR
10787	41155	A	10849	1	3654	
10788	41156	A	10850	1	5127	
10789	41157	A	10851	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKLK*RKKC*GQ PERKVKLPTKGSPSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEIQTIREYYKHL YANK LENLEEMDKFLDTYTLPRLNQE EVESVNRPIGTSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLKLFQPIEKEGILPNSFYEASII LIPKPRDRTTKKGNFRPISLMNI DAKIL
10790	41158	A	10852	1	3663	

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10791	41159	A	10853	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDTTYQNLWDTFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTHSKASRRQEITKIR AELKEIETQ
10792	41160	A	10854	1	3354	
10793	41161	A	10855	1	5073	
10794	41162	A	10856	1	3235	
10795	41163	B	10857	1	3300	
10796	41164	A	10858	1	2563	MKAEIKMFFETNENKDTTNQN LWDAFKAEVESLNRPIGTAEI GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPFLKL FQSIEKEEI LPNSFYEASIILIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISIDAEKAFDKIQPFMLKTL NKLGDGT YFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTRQGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITI QDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAACKHMKKCSSSLAIREMQI KTTMRYHLTPVRMAIIKKSGNN
10797	41165	B	10859	1	3420	
10798	41166	B	10860	1	4019	

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10799	41167	A	10861	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTQNHSTTWELNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLLARLIKKKREKNQI DAIKNDKGDITDPTEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNR PITGAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLFQSIEKE GILPNSFYEASIIIPKPGRD TTK KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGWFNIRKSINVIQHINRAKDK NHMIISIDA EKA FDKIQPPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWK NIP CSWVGRINIVKMAILPKNILITL QLLLVLPSTLIPLWLPALAGO
10800	41168	A	10862	1	4449	
10801	41169	A	10863	824	3693	AWKGTDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLLL NDYWVHNEMNAEIKMFFETNE NKDDTTYQNLWDAFKA VCRGK FIALNAHKRKQERSKIDTLTSQ KELEKQEQTTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
10802	41170	A	10864	1	3297	
10803	41171	A	10865	1	4791	
10804	41172	A	10866	3	3316	
10805	41173	B	10867	1	3415	
10806	41174	B	10868	1	4753	
10807	41175	B	10869	1	3384	
10808	41176	A	10870	1	3345	
10809	41177	B	10871	1	3772	
10810	41178	A	10872	1	3720	
10811	41179	A	10873	1	3894	

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10812	41180	A	10874	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQSRSTTWKLN NLLLNDYWVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETQ
10813	41181	A	10875	1	3780	
10814	41182	A	10876	1	3852	
10815	41183	A	10877	1	3345	
10816	41184	A	10878	965	4362	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEYTFFSAPHHTYSKI DHIVGSKALLSKCERTEIITNYL SDHSAMKLELRIKNLTQNCSTT WKLNNLLLNDYWVHNEMKAE IKMFFETNENKDTTNQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLKELEKQEQTTHSKA SRRQEITKIRAELEKETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREKNQIDT
10817	41185	A	10879	1	3921	
10818	41186	A	10880	1	3988	MTGSNSHITILTLNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKKAGVAILVSDKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDIYRTLHPKSTEYTFFSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRIKNLTQS RSTTWKLNNL
10819	41187	A	10881	2	462	YFTDRLRLARLAGTPL/IMFGTIA RSGVRIVSREPLNRRAILIIALSL AVGLGVSQQPLILQFAPEWLKN LLSSGIAAGGITAIVFSLAGHPA LATNAQPMFAFLHQTTFFQNL IRVKEAICSDQFNTTMFRGLQG NSACTKCNPRCLNELTPTE
10820	41188	B	10882	16	163	

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10821	41189	A	10883	2	1509	RDEVNGCIRLVYDMYSTFGFEK IVVKLSTRPEKRIGSDেমWDRA EADLA VALEENNIPFEYQLGEG AFYGPKEFTLYDCLDRAWQC GTVQLDFSLPSRLSASYVGEDN ERKVPVMIHRAILGSMERFIGIL SEEFAGFFPTWLAPVQVVIMNI TDSQSEYVNETQKLSNAGIRV KADLRNEKIGFKNRSGELSHLP PINQSKPRNFPSAALPQVPQPTH LSQRPRASPKPPDPERVELSL EEHREMLEGFYEEISKGRKPTLI LRTQLSVRVNAILASLESVKPL YTMALGLLVKYPDSALGQLRIE STVDGSRLYITGNGVLFQHVKF HAFLLYLGYTPQAAREVRIMQF CHTLREFALEYRTCERERVLQQQ QKQATYRERNKTRGRMITETE KFSGVAGEAPSNPSVPVAVSSG PGRGDADSHASMKSLTSPED TTHNRRSRDRHGPRGCQVCSA QPSSLRAVPVADMALMTGKD CPPCPGKRLRGAELGPL
10822	41190	A	10884	296	757	ISRFRRRALSPKAESSLSILPRE KRSPSRTWILTPRRLFSLAISSKS AGNTLSSRIK*KA*ACK*RGR VSTRCRIFLALFIVTIKHRLMMR STASNRQYSISIWITLPCWSARC FSIKIAGIPAEPPRYLLISPGILTG LKINFFTTVSFW
10823	41191	A	10885	1	519	MGLPWQVGMGAIFWGAIGLLL LTIFRVRYWMIANIPVSLRVGIT SGIGLFIGMMGLKNAGVIVANP ETLVSIGNLTSHSVLLGILGFFII AILASRNIIHAAVLVSIVVTLLG WMLGDVHYNGIVSAPPSVMTV VGHVDLAGPIGNSLV/GCPYFAI LRRFSDGSGGLGRNQI
10824	41192	B	10886	1	3489	
10825	41193	A	10887	817	1528	WGSRDNRDEIRNTLVLDTLRLQ RVCAQRAFLVLFVLGKVTFEEL NFTFILVIQNVRGDTVEEPTVVR DNHRTARELQQGVFQRAQGFD IQVVGWVFEQQHVAANLSRCR LVNTPTQQVRFSTATFRVIWRV TPTAGKLSGGFLFKMYGLPAA AIAIGTLLNQKTARKWAVL*SP PALTSFLTGITIEPIEFSFMFVAPI LYIIHAILAALFMWKFVPETKR KTLEELEALS NRJAAE
10826	41194	C	10888	1	573	

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10827	41195	A	10889	2321	2554	WRKRCVKVRNLSPLCLPDRKL TLPCCSIAIRNCIAKL PVS*LWV ALWGWVTGRLRLNLIFTLTRK RQKLSSSQGSRW
10828	41196	A	10890	1	4350	
10829	41197	A	10891	137	686	KLLELRSKREAGMLERSSSRMV TCSQWAATRNPVVALPIYGFIE RCLVPFGLLHIWNVPFQMQIGE YTNAAGQVFHGDIPRYMAGDP TAGKLSSGFLFKMYGLPASAIA IWHFVKPETRAKVGGMIFAAL TSFLTGITIEPIEFSFMFVAPILYII HAILAG\WHSQSVFFWGCVTVR RSRTV
10830	41198	A	10892	3	3831	SIGMMGLKNAGVIVANPETLVS IGNLTSHSVLLGILGFFIIAIL/AS RNIHAAVLVSIVVTTLLGWML GDVHYNGIVFAAPPSVMTVVGH VDLAGSFNLGLAGVIFSMLVN LFDSSGTLIGVTDKAGLADK GKFPRMKQALYVDSISSVTGSFI GTFSVTAYIESSGVS VGGRTG LTAVVVGLLFLLVIFLSPLAGM VPGYAAAGALIYVGVLMTSSL ARVNWQDLTESVPFITAVMM PFSFSITEGIAL
10831	41199	A	10893	6	146	
10832	41200	C	10894	1	1197	
10833	41201	A	10895	1	763	MCSEK VAMCCDDDDDDDDDD DDDDDDDDDDYSCSHGFWD FSY TWNTSIPQGH LGMGSPIKGLVE IRDKLGDR TQRVYIQRITGNL EFENPCKQFRGLTRMYIRRLTR LSVQWYMVALERPVLQKYRY RGSKAHETSHSMSTVTSSNEKQ DNTRIDTQGATNR/VATLRHRE TVLANEVAPYAATDNVLAAS DVGDVSWKLPVAQCFSPCFAV GTPLHTWQ/SGLLQECQ QEHQQ VTDTPYHCPKPNVTPSPLK
10834	41202	A	10896	2	412	LFEFTLDVKVRESPILAFRDESM RTACSPDGLCSNGFGLKCPF TSRDFMKFRLGGFEAIKSAYMA QVQYSMWVTGKDAWFFANYD PRMKREGIHHVVVERDPQYMS DFNEMVPEFIEKMDEALAEIGL TVRELGI

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10835	41203	A	10897	3	663	ARGKKPPRRGKEDFWDL SIATR VSVNPIKFPVEA*PFLKPLQQV SGPLGGRLPLPIGNLLLQVAD GTLSLTGTDLEMEMVARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
10836	41204	A	10898	377	1077	WRGQRCLASVFPRHPGAEGRG RPVFRAETIFL**SRRGLAR/TGR RKLPVKLKAADFPNLDDWQSE VEFTLPQATMKRLIEATQFSMA HQDVRYYLNGMLFETEGEELR TVATDGHRLAVCSMPIGQSLPS HSVIVPRKGVIELMRMLDGGD NPLRVQIGSNNIRAHVGDFITS KLVDGRFPDYRRVLPKNPDKH LEAGCDLLKQAFARAAILSNEK FRGVRLYVSESQLKSQR
10837	41205	A	10899	591	871	VRGFPSGAEQLYG*SVSLLILLP NLSNSG/RTGFPVAPLPYSKSPS DFMSLLISTVPGSQL*QPIQRAE LVCTTCSPIVSAPTQGAPTQGAF SH
10838	41206	B	10900	1	1765	
10839	41207	A	10901	1	1177	MKSLIIVNPADCIGCRTCEVAC VVAHPSEQELNADVFLPRLKV QRLDSIKRFWEQMMRIVTAAV MASTLAVSSLSHAAEVGSGDN WHPGEELTQRSTQSHMFDGISL TEHQRQQMRDLMQQARHEQPP VNVSELETMHFPGMLFETEGEE LRTVATDGHRLAVCSMPIGQSL PSHSVIVPRKGVIELMRMLDGG DNPLRVQIGSNNIRAHVGDFIFT SKLVDGRFPDYRRVLPKNPDK HLEAGCDLLKQAFARAAVILSN EKFRGVRLYVSENQLKITANNP DQEEAEILDVPYSGAEMEIGF NVSVMVDVLNALKCENVRMM LTDVSSVQIEDAASQSAAYV GMPMRLEGSPPLGNPEFQKISSP CALYIALCSKARHHTGRYLGLC
10840	41208	A	10902	527	925	

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10841	41209	A	10903	1	1514	MAFGLFWLIWILMSTITRGIDG MSLALFTEMTPPPNTEGGGLAN ALAGSGLLILWATVFGTPLGIM AGIYLAEYGRKSWLAEVIRFIN DILLSAPSIVVGLFVYTIVVAQM EHFSGWAGVIALALLQVPIVIRT TENMLKLVPYSLREAAYALGT PKWKMISAITLKSAVVGNMTRI L\LRMAPIVVKTAPLLFTALSNO FWSTDMMQPIANLPVTIFKFAM SPFAEWQQALAWAGVRNLNFYY GKFHALKNINLDIAKNQVCVC YNQCTESLVNGLYANAAHLVS VGQRSTGNSSVIKARQGSSIRP MIVKYSALCLCRMRSERFIRRT KHKRFDRLQCTCRPDKRSASG NLAFVISLRPVPLVAVVFALFA AFPMFSDVSIQLRHFIFANFLPA TGDVIQRYIEQFVANSNKMTAV GACGLIVTALLMYSIDSALNTI WRSKRARPKIYSFAVYWMILTL GPLLAGASLAISSYLLSKQWAI DIDSVNRLGAIILTALITGDT
10842	41210	A	10904	900	1250	WYACDQCQTCLPDHAPECAVA *AKTCCTAIETGTYRQSGRERK QSAMVL*RVRVLL**RRETACH VRAGLL*S*GTALGGHYRRLQQ *NSTGRHAGSGGTPLRQRSSVV SSGVADG
10843	41211	A	10905	626	850	LRFLVFNILSRYSLISTVQKFSP AMLNGTLPLENHL*LRNITAIM NLVIFHGLSA*SVCYIPGRGSV MSDRV
10844	41212	A	10906	307	858	
10845	41213	A	10907	698	1115	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHSGTRGRRAR FSVRATYAAGRLATIPGYRGGP LGLMCGQPNRKPTDGANERLT MIRAATAMSE
10846	41214	B	10908	1	721	
10847	41215	A	10909	1	2615	
10848	41216	B	10910	1	1164	
10849	41217	B	10911	1	1930	
10850	41218	A	10912	689	1033	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPH\DGPEHSVFM PSR*APMTR*KIYSSPPYRSSQR AHRHA

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10851	41219	A	10913	393	686	NPSQLWEAAPPQWKWIQGAGK VSCQLSRAADQLGRQHHISDPC FSIVPLIL*FAAYFPINPAVLKLA PVALYADAIRYNARTPLQGSLL PLTRLVWA
10852	41220	A	10914	1313	2370	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHRANPDANVV SEDVLRSEVGKSVVNLIHGVRD MAAIRQLKATHDTSVSSEQVD NVRMMLLAMVDDFRCVVIKLA ERIAHLREVKDAPEDERVLAKE ECTNIYAPLANRLGIGQLKWEL EDYCFRYLHPTEYKRIAKLLHE RRLDREHYIEEFVGHLEAEMK AEGVKAENVYGRPKHIYSIWRK MQKKNLAFDELFDVRAVRIVA ERLQDCYAALGIVHTHYRHL DEFDDYVANPKPNQYQSIHTV VLGPGGKTVEIQIRTKQMHEA ELGVAHWEI
10853	41221	B	10915	1	1556	
10854	41222	A	10916	1566	1947	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPH/ECAGLSLAT GISAAAGL*WARRSFIQRDSRD PRYRAPIRIHPLPGANHRLRQ
10855	41223	B	10917	1	1571	
10856	41224	A	10918	2024	2589	QDMQNLLVLRETSVKPEYPGL KVPEAFR/RIQGRKGEPGEGAY VYRSFVSFQKPRFSCALGGAI AASWAGGGAPSPCGRRAELPW GPGPVGVAQTVCPPERPRRRL RGEEEEAADKVMARRWRKSR RRKRKEMEERMSPEETEGTNF DFAGEAVGQAERKGPFSAAE ESFHKEEKRRRKEQSDLT
10857	41225	B	10919	690	2724	
10858	41226	A	10920	3892	4338	

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10859	41227	A	10921	2573	3473	ANGARLALPPLGTFQGRQLRRR RPRWRRRRPGEASGPVMRLRG PRPGASAPWDGGSQVAR*WC PFPSPQGWGGSQGGQGDGAR FRTHRAKVQQDGDGR*DEADG VHRHAPLQGRLVLVQVGVADE REDDAGNEGLQHLQQPGYGGH IASDLAGPGPGPHFGGVSHTR DAGEEGGGDGVVPRTA VGQEL DIGGGVDDGGREAEEGRIAGEG DGEVAPRQGEAGLEPAQLHDE DDQGHGEAEAPGEHGPVAHGP RPGAHASHQREGHAGRHLQQLQ AKETQGLCQGPRGPHDHGGPQ
10860	41228	A	10922	819	1274	NPLPRLQLRRQLHLPSVRNCCQ TRRCGR*HRQLRQ*ARRKLVR SVYFGSCLRQLLREEWK*Y*RV *VLGWYSAVSTSSLPFDYCFLP NSDGYRRVVDPGSLSGHPFLYQ RYGWQHDDVHQPDGLGLPPGS LHPDPACFRCVLRNCGNLLA
10861	41229	A	10923	720	3546	RDGRKPLQPDAARNCGGSQSQ RSGSRKRRGDRRI/TLMSLKTRK ANRWA*SFRKMAAISTP/RTDI ACAKYRYETLHADRVLYYIDS RQHQLMQAWAIVRKAGYVP ESVPLEHHMFGMMLGKDGPFP KTRAGGTVKLADLLDEALERA RRLVAERTRYSAKSWKTVFRL VIGEQMIDVLGPEKRRRTTQE KIAIVQQSFEPGMTVSLVARQH GVAASQLFLWRKQYQEGSLTA VAAGEQVVPASELAAAMKQ
10862	41230	A	10924	764	1227	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRTVE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHNPTLEWFLS HCHIHKYPSTLIHQGEKAET LYYIGKGSVAVLKDEEGKEMI LSYLNQGDTIGDLGLFEEGQER SAW
10863	41231	A	10925	2467	2653	WLPFGLSHHNSPHPTSWGANG GFCQLLSMSVLIMHSGTLGAH WDFSPVIGLEANRGVGDGS

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10864	41232	A	10926	1	860	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAL GVMMTQGTLFDAITIEAPSSTK NKEQQRDPPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNQLGNLLHGEKQF VSAMPATKEPQREELAEVDVD LLIAERPGKVKTLK/TESAQ/GT KRPSTSNT*KPASVPGWSTRFA SSSGSSAS
10865	41233	B	10927	754	910	
10866	41234	A	10928	2395	3454	
10867	41235	A	10929	1	1377	MSCMTPASDGTFFISIDDEEAKQ FRESVVEWLMTNHPHDCPVCE EGGNCHLQDMTVMTGHSFRRY RFTKRTHRNQDLGPFISHEMNR CIACYRCVRYKDYADGTDLG VYGAHDNVYFGRPEDGTLESE FSGNLVEICPTGVFTDKTHSER YNRKWDMQFAPSICQQCSIGCN ISPGERYGELRRIENRYNGTVN HYFLCDRGRFGYGVNLKDRP RQPVQRRGDDFITLNAEQAMQ GAADILRQSKKVGIGSPRASVE SNFALRELVGEEFYTGIAHGE QERLQLALKVLREGGIYTPALR EIESYDAVLVLGEDVTQTGARV ALAVRQAVKGKAREMAAAQK VADWQIAAILNIGQ/HPLFVT/N VDDTRLDDIAAWTYRAPVEDQ ARLGFAIAHALDNSAPAVDGIE PELQSKIDVIVQALAVFRLVIGE QMIDVLGPEKRRRTTQEKIAN
10868	41236	A	10930	19	586	IAALLKDKHPAMLLLAATKRG KALAARLSVQLNAALVNDATA VDIVDGHICAHRMYGGFAQE KINSPLAIITLAPGVQEPCTSDTS HQCPTETVPYV/APRHEILCRER RA/KAASSVDLSKAKRVVGVG RGLAAQDDLKMHVHLEAAVLN AEVGCSRPIAEGENWMERHAQ HKSWNPLSWAPLGSQAHP

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10869	41237	A	10931	1	1364	MLRILCLALCSLLTGTRADPGA LLRLGMDIMNREVQSAMDESH ILEKMAAEAGKKQPGMKPIKGI TNLKVKDVQLPVITLNFVPGVG IFQCVSTGMTVTGKSFMGGNM EIIVALNITATNRLLRDEETGLP VFKSEGCEVILVNVKTNLPSNM LPKMVNKFLDSTLHKVLPGLM CPAIDAVLVYVNRKWTNLSDP MPVGQMGTVKYVLSAPATT ASYIQLDFSPVVQQQKGKTIKL ADAGEALTFP/RGVMPKA/PPQL LVPATFLSAELALLQKSFHVNI QDTMIGELPPQTTKTLARFIEV AVAYPKSKPLTTQIKIKKPPKV AMKTGKSLLHLHSTLEMFAAR WRRKAPMSLFLLEEHFNKGG HSLHENQLQMATSLDRLLSLSR KSSSIGNFNERELTGFIITYLEE AYIPVVNDVLQVGLPLPDFLAM NYNLAELDVELGGIMEPAD
10870	41238	A	10932	111	415	VSALSLLLHRAPRCRRPSLPPLQ DAGLHGWEHGVQRGRGPAAH RDPV*EGWHHSGHLAQGHSEG *PCGDSETPAGREGKTAGHRTG RCGCRQEQTGAQQD
10871	41239	A	10933	2	219	FLGGEGVIFPRGWWGAAMRFV STGSRHTTP*GSEKSAGPHTQW HQNSK*ATSETRLHSCASEGIVP AGCRPY

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10872	41240	A	10934	1	2358	VPMVVVPPVGAKGNTPATGTT QGKKAEGTQNNQSKKAEGAPNQ GRKAEGTPNQGKKTEGTPNQG KKAEGTPNQGKKA\EGTPNQG KKAEGAHNQGGKVDTPNQG KKVEGAPTQGRKAEGAQNQA KKVEGAQNQGGKAEGAQNQG KKAEGAQNQGGKAEGAQNQG KKAEGGQNQGGKTEEAQKQG KKAEGAQIQGKKNEGAQTQGG KAEGAQNQGGKNEGAQTQGG KAEGAQTQGGKADGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKADGAQNQGG KAEGAQNQGGKAEGAQNQGT KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KVEGAQNQGGKAEGAQNQGG KAEGAQNQGGKAEGAQNQGG KGEGAQNQGGKTEGAQGGKA ERSPNQGGK\GEGAPIQGGKAD SVANQGTKVEGITNQGGKAEG SPSEGKKAEGSPNQGGKADAA ANQGGKTESAFVQGGNTDVAQ SPEAPKQEAPAKKSGSKKKGE PGPPDADGPLYLPYKTLVSTVG SMVFNEGEAQRLEILSEKAGII QDTWHKATQKGDPAVILKRQL
10873	41241	A	10935	967	1574	SLKCLHSLSPVHSSYPGKRPEVSF SPINSGQPPNYEMLKEEHEVAV LGVAYNPAPTSTVIHIRNETSV PDHV/VLVPVQHSLEHPCCLGF IAFAYSVKSRHRKMVGDLTGA Q/ALCLHRQVPEHLGPDFGHPH DHAHHHPVDLPSLPSSFLLLF LFLFLPALQLLFLSFLVFFFFFS FFPLFQRLELWGWGEWDHST
10874	41242	A	10936	3	370	RVATIVDIWEKSISGKKNSQNL FVNPCCLGFIAFAYSVKSRDRK MVGDLTGAQA/LCLHRQVPEH LSPDCGHPHDHAHHHPGVDL PSLSIDQEASSRPGARALQDGA WASVFPSVQWEQQGW

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10875	41243	A	10937	76	614	PDRRWSSLDTMNHTGQTFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPTSTVIHIRSETSVPD HV/VLVPVQHPLHEP\CCLGFIA FAYSVKSRDRKMVGDTVGAQ/ ALCLHRQVPEHLGPDSGHPHD HSAHRHPSADLPGLWIDQEASL RPGALPMTICIPRTPTSIPRPAPR GQELCP
10876	41244	B	10938	695	1011	
10877	41245	A	10939	410	5501	EAKTHKSVMVMTDPLLDSPASS TGEMDGLCEPLLIPPLSNRGI LGPVQSPCPSRDPAPIPTPGCL LVEATATEEGPGNMEIIVETVA GTLTPGAPGETPAPKLPPGEREP SQEAGTPLPGQETAEEENVEKE EKSDTQKDSQKAVDKGQGAQR LEGDVVSGTESLFKTHMCPECK RCFKKRTHLVEHLHLHFPDPSL QCPNCQKFFTSKSLKTHLLRE LGEKAHHCPCHYSAVERNAL NRHMASMHEDIS
10878	41246	A	10940	446	1704	GGPDMDARAPAVGGSCHQHGP SGAPGP/CIGRMES/EVGVRDHA IPEGARCNRFKETTETGPHCSR CGLLCPSPASLRGHTRKQHPRL ECGACQEAFPSRLALDEHRRQQ HFSHRCQLCDFAAARERVGLVK HYLEQHEETSAAVAASDGDGD AGQPPLHCPFCDFTCRHQLVLD HHVKGHGGTRLYKCTDCAYST KNRQKITWHSRIHTGEKPYHCH LCPYACADPSRLKYHMRJHKEE RKYLCEPCGYKCKWVNQLKY HMTKHTGLKPYQCPECEYCTN PADALRVHQETRHREARAFMC EQCGKAFKTRFLLRTHLRKHSE AKPYVCNVCHRAFRWAAGLR HHALTHTDHRHPFFCRLCNYKA KQKFQVVKHVRRHHPDQADPN QGVGKDPPTPTVHLHDVQLED PSPPAPAAPHTGPEG

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10879	41247	A	10941	1	944	MSILLTSIARQSRDKRTRLGHK QRILAGLGSNHPIRRNLQGLRR FALVDRQLVVQNVVTRWCRM VYQSAANVFIQHRPISHDERVQ QRGTAITMMVQQAQWAERGK SGLSGVAIGPAVDTSALQAQLR ETLPPHMVPVLLQLPLPLSA NGKLDKALPLPELKAQAPGR APKAGSETIIAAAFSSLLGCDVQ DADADFFALGGHSLAMKLAA QLSRQVARQVTPGQVMVASTV AKLATIIDAEDSTRRM/WIRNH SAVA*R*WPDVLFPSVRFCL AVQRALALSRTMVDYRHSVT APQWPHADGGKPG
10880	41248	A	10942	1	939	MRTILTIDIQLRYPRRPGAFGTH TFLKCAFSNKQRRFTVKRFAFL AARYPASQEMPPVRHGHAVAA AIPCGNVPANGNTPARYKGQC GLCSSTLQDALRDFIQVAHTCEI PLMPACFGLADDKLWRWLNE KLPCSLMLLPTLPPSVLGIRLQN QLQRKIVLFGGVWMPGDEVKK VTCKNGVVNEIWTRNHADIPLR PRFAVLASGSFFSGGLVAERNG IREPILGLDVLQTATRGEWYKG DFFAPQPWQQFGVTTDETLRPS QAGQTIENLFAICSM LGGFDPI AQGCCGGVCAVSALHAAQQIA QRAGGQQ
10881	41249	A	10943	25	479	
10882	41250	A	10944	2	453	APSRTSGSSVGLQGSYVLDVDG REFGCERVKG*FLVHRAGHL/L TLWLFSSQINKMEWSRLVSS DPEINTKKINPENSKVSPGWL ELQQEGEGPRCFQSFTDSCHCL PS\SDLDSETRSMVEKMMYDQ RQKSMGLPTSDEQKKQEILKK

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10883	41251	A	10945	3	1110	RDPQERRERGRTRVQSSGTWIGA GAMGGEQEEERFDGMLLAMA HQHEGGVQELVNTFFSFLRRKT DFFIGGEEGMAEKLITQTFSHH NQLAQKTRREKIARQEAEERREK AERAARLAKEAKSETSGPQIKE LTDEKAEKLQLEIDQKKDAENP EAQLKNGSLDSPGKQDTEEDDEE EDEKDKGKLKPNLGNGADLAQ *RLNPDPCRELDLAVPFCVNFRL LK GKDMVVDIQ/RRQHLGVGL KGQPAIIDGELYNEVKVEES\SW LIEDGKVVTVHLEKINKMEW WSRLVS\SDPEINTKK\NPENSK LSDLDSETR\SMVEKMMYDQ\ RQKSMGLPTSDEQKK\QEILK\K FM\DQHPMGFFPKAKFPTNPC
10884	41252	A	10946	50	426	
10885	41253	A	10947	1	942	QVWKQNCFKHYSNETDNSTTQ LVGLQTLQVVVPSLILCEHCMN FSSPHVWCCLVQAVPGGQQGTI MQVPVSGTQGLQQVSNI*KY*A VYQRRGFKE*IITTYQTQQIIQQ PQTAVTAGQTQVIPLALSHRSK TDLEESDN*VRYFPVNADGTIL QQGKCTHKLP*DFLGQLFCPLD N*HLSSSGQGTVTVTLPVAGNV VNSGGMVMVRKCIFQLCL*NF LEHAT*CLKFEPLYVNAKQYH RILKRRQARAKLEAEGKIPKER RVCITLGRI*ERRIAGFYF*NYLL YPKEKDSPHMQVGRHIHFILLFI TLY
10886	41254	A	10948	24	378	
10887	41255	A	10949	15	658	QRPNAAQTQPSRGCQLSAPARA GRFHPQSCRPSRVGCKGHVCIP GDRSLALWPPRLGCGE*TSSAL DSQGILVSNFPHEGS/PTPQQSG LKTGRILLNHGRRRLKVSQSEG RFLEVGVWKQRGPTAHRTHSNR TRRRHALSTGGDTGRARNARS GGGRSPRSSLPAASSTPGVCWS PRMSQARQPPSCRRGVPRRPEM LRSLSPSCQICVCVFRFH

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10888	41256	A	10950	1171	1639	PMALWADGRARHKVGTCECEC GMHPGLKCSGRTLGSQTMLAT TPCDSPT*/1/SNKNGLRSV/SYR* CLINALWLFISPHILVRCGTESS *LLPSLVPSWLP*LVRVR\PLPT GWC*IPSCCLKPPTWSSHSPQ RLP*NPATLVCLQNGTARSHSS TPV
10889	41257	A	10951	2	357	HERLLNPGRETDWATCYSETAS CSVA*ATVQ*HDHGS�*PQTPG LKWFSHFSLPSSWDYRHVPPCP ETGPCPVTQDGVQWSYHGSL*P QTPRLKQSYHVS�PSSWDYRW EHPVAGKQA
10890	41258	A	10952	15	578	IQTPPKGRRTKPCRQKRTIVTP RQSTPRSNRGKDTRSKQRDETT E*TTRAQDTNKEGATQDRTETA RRTQSNMEKEKPNQHNRKRKD RDSRKDKGHERETKNTERNRT KRREKRKDNKHNEAKSQRQTR KKKETKETATRKREEPSNSCSM HPFQISWLHSVGDNGRRDQLLC QGFHLYYLMCFPQ
10891	41259	A	10953	2	369	DIDPTGLQSQGSPKGQDPPLMF SEDYQKSLLEQYHLGLDQKLR KYVVGELIWNFADFMTNQCP KTPPSVILFLPSCEEPQANKATL VCLMNN\FYPGILMVTWKADG TLITQSVEKTPPSKQS
10892	41260	A	10954	1	417	FGTGPSASPRTSFRHQCGH*PH WTA VTVDSQGAGQPKTTPSVIL FLPSCEEPQANKATLVCLMNNF IPGILMVTWKADGTLITQSVEK TT/PSKQSNNKYVASSYLSLTPE \SWRSRRSYSCQVMQEGSTVEK SVAPAECS
10893	41261	A	10955	113	767	GPMRPGTGQGGLEAPGEPGN LRQRWPLLLLGLAVVTHGLLR PTAASQSRALPGAPGGSSRSS LRSRWGRFLLQRGSWTGPRCW PRGFQSKHNSVTHVFGSGTQLT VLSQPQ/ALTPSVILFLPSCEEP QANKA\TLVCLMNDFYPGILTV TWKADGTPITH\GVEKTPPSKQ SNNKYVASS/YTSLTPEQWRS RRSYSCQVMQEGSTVEKS\IAP

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10894	41262	A	10956	1	344	GSAAGQVQQQQQRRHQGKV TVKYDRKELRKRLVLEEWIVE QLGQLYGCEEEEMPEVEIDIDD LLDADSDEERASKLQEALVDC YKPTEEFIKELLSRIRGMREN*A PPPKKSV
10895	41263	A	10957	3	349	TMNNMRGQILLFLLIWLWNR YGQLVGSSEKHKIASQLELIQS QFHYCVTLDKLLNFSEPVHVK QEQLLSVCSEKEVTEVKVLALV NHVGSKCCFLIFCSGPS*PKFSV SQVFSD
10896	41264	A	10958	998	1383	
10897	41265	A	10959	39	402	TDHIMREYKLVVLGSGGVGKS ALTVQFVQGIFVEKYDPTIEDS YRKQVEVDCQQCMLEILD TAG TEQFTAMRDLYMKNQGQGFALV YSITGQSTFNDLQDLREQILRG* RTREDVPMILVGN
10898	41266	A	10960	25	739	YKKNFDISLLSVKCETCTHMLT SSSL*C*NLICRSLFLIDFNL*AG FVI*VGFTAQSTFNDLQDLREQI LRVKDTEDVSIFSLCKMLCHLS VAK*KSACFQNLARQWCNCAF LESSAKSKINVNEVTYNCWAA QTS AFLVCFKL TARLLALSITNV SSCTGWGVQRSHQDQGNSKHA ASSVWKVGFGIVRLGTGTCLSS LERGYMCMEMFDPYTPSRV LKPRSEALELFGPLKSLT
10899	41267	A	10961	946	1424	YFRFLCVIFCSFLLRCLVSRVLL YPMLIAEIPRVQGRGGPSWPGL GGRLLKELSRLLTFLKVRKLSIL SGWREVPLGQPSLTEPP/PPAPP HPGPGSWLASASAPHL SQPPAA GPAGQPPSPGSPVPGGCSLALP VTSVLCLEPPALKPAAASAPVV AVH
10900	41268	A	10962	1	148	TALQEFGTRSGIPALGCPPDP* PPPGSCPPPEPQLLSVGEPSCS CSP
10901	41269	A	10963	10	233	LGAARRAQLLESWPRA\PPPAR LHACHLQP/LPRTPKVHTS*PTQ QQGGFSLCLKKKNVPVSVEMIC SSARLKLTE
10902	41270	A	10964	1	331	RPLLLSTLCWELRAALSYWRA GRAPPPPARLHAGPASGFVWLT PSGGEEGEPRTLWGGGGRRG GGRKKKD*GGQGRGAGGFATF SPPANAPRLHTSLTNSSARWIFL CV

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10903	41271	A	10965	4	1023	FPRAGEKPYTCEESGRAFNQS* TLTTHMTIHAG*KPYKCEECGK AFYRF ⁵ SYLTKHMIHTGETFYK CEECGRGFNWSSTLT ¹ KNRIHT GEKPYKCEQCGKALNESSNLT AHKIIHTGEKPYKCEECGKAFN RSPKLT ¹ AHKVIHSGEKPYKCEE CGKA ¹ FSQSSILT ¹ THKRIHTGEKP YKCEECGKAFNRSSNLT ¹ KKHII HTGEKSYKCEECGICRTPKMAV FSQCHQVLKITNIHYPSSIATIVH GDRAQSHVDICTLGDKASGAI GTAFYTTQCEQRAYNETAVSR YTISRPPSHHGGDSETTEFSPAI GRCNGVHKSWGNSNRCS ¹ DRWRS
10904	41272	A	10966	1	290	
10905	41273	A	10967	1	1508	MSWAARPPFLPQRHAAGQCGP VGVRKEMHCGVASRWR ¹ RRRP WLDPAAAAAAVAGGEQQT ¹ P EPEPGEAGRDGMGDSGRGEC ¹ P SRRAGEPVTALSATPPPPFPVIS SSMGSPGLPPAPP ¹ GFSGPVSSP QVRGCDQLTAWPLSFSCFPCNP VLGVRGLHCP ¹ PPPGPGAGKRL CAICGDRSSGMWLRG*TERESL GHVSSPVG*DLTYSCRDNKDCT VDKRQRNRCQYCRYQKCLATG MKREGKDPPCPGVLDHMPFSLI PLRPPEEMPVDRILEAELAVEQ KSDQGV ¹ EGPGGTGGSGSSVS GVNPLSFVMGVGGGSLGLWAK RIPH ¹ FSSLPLDDQVILLRAGQ*P WIPLTS*HLTPL*LPDLFLATGL HVHRNSAHSAGVGAIFDRSVA LG*AGM*IEGVGL*AGPCLRAII LFNPGKRRITFVSQGGN ¹ L GAS SSPMETYCKQKYPEQQGR*DG AGGH*GSLGGGECYEDVFLFFF KLIGDTPIDTFLMEMLEAPHQL
10906	41274	A	10968	945	1131	MICTVAISYVLFVDVYISLLSAT CSPKPQGS ¹ AVFQHD*VSPGI*NG SERCCSRDRHRQFLW
10907	41275	A	10969	37	332	AEGIRTIQGTENIFCKVWGRQ VLSQNTLEGQSN ¹ DHGCQLR KRTFISTFTAHSRFFLQRF/VFP YTGF ¹ EKCQSTAW*KPRYLLSHS VKGKRN ¹ LHPA
10908	41276	A	10970	137	283	
10909	41277	B	10971	1	624	

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10910	41278	A	10972	3	618	KTQDPAKAPNTPDILEIEFKKG VPVKVTNVKDGTTHTQTSLELF MYLNEVA\AQHGVGRIDLGDN R\FIGMKGRGIYYTPTGTILYHA HLHIEAFTMDREVRTIIQGLGLK FAELVYTGFVHWSPECELCRHCI AKSQERVEGKVQVSVLKGQVY ILGRESPLSLYNEELVSMNVQG DYEPTDATGFININSLRLKEYHR LQSKVTAK
10911	41279	B	10973	1	1102	
10912	41280	A	10974	748	1396	LYLQRPFFQIRSSLQVLGHRQIF PQSPRCLHLAPPPLMRHSHRSPT WY*FSPRRTQQSRPVSAQPLGS CGGIQPAPPPVTQPSQLSPPRGS R*LGS DGAGTQPRHVQNPCPLT CVHM*SPPPCLNLQARCPQSL RAKVVPAVEQRARVGHVESPG SHCWLEREPEVGS GPQQGQRPL PAGAAD*CLGAFWQTHLDLGD SLISCSHDLQGWQLSQA
10913	41281	A	10975	1	846	
10914	41282	A	10976	2	851	WNSAELGRGGPGAGGAGVIGM MRTQCLLGLRTFVFAAKLWS FFIYLLRRQIRTVIQYQTVRYDI LPLSPVSRNRLAQVKRKILVLD LDETLIHS HDGVLRPTVRPGT PPDFILKVVIDKHPVRFF\VHKR PHVDF FLEVVSQWYELVVFTAS MEIYG\SAVAD\KLDNSRSILKR RYYRQHCTLELG\SYIKD/LSLV VHSDLS\GIVIL\DN PGA\YRSH PGYGG R\DNAIPKSWVSVTPS\ DTALLNLLPMLDALRFTADVRS VLSRN LHQHRLWVTACFPLPP
10915	41283	A	10977	25	153	
10916	41284	A	10978	1	741	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGTPR KGLGE/PAVVPMSPAVGT/PALT QCHGPHAEDDLEEPILTTDPVA RDCPLDLLMDGKTGAIISSLLHS NCLPAPFCQCSHAVKWQLKTV HSCCPLGEVQPQRRCVIATAKE KGIGVKHHHCNIHSDNVNSIITAT VAAHQQQQLPQNGNNSGIKNN QNSSENTVTNNSKNISNHIICRN SSKNSKSSSSSSNNKNSSNTI NSNNKAR

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10917	41285	A	10979	1	669	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGTPR KGLGE/PAVVPMSPAVGT/PALT QCHGPHDEDDLEEPILTTDPVA RDLTMPTAASQHLQKQCLEHH HYFHSYNINSDITVSRNNISSIIT TPVHHHCNIHSDNVNSIITATVAA HQQQQLPQNGNNSGIKNNQNS SENTVTNNSKNISNHIICRNSSK NSKSSSSSSNNKNSSNTINSN NKAR
10918	41286	A	10980	3	980	IESPGFPFPGQLQRPVPHRGEFCL RCTSSEALPCFYSWTVTFSPWT VAAAQQQPRPGPASRTLLLATQ SEIAAAELGPGSWGPPSSCPSE QSSHGPPASS*AAPLQTGRRLRS RAS*RSGAPSVAAAPLSRPQE RHPSVSASRSGHPPGPCSPPPP AARPVQSPCRAPPGSAAGRAR APHA*AAPGSWLSSAGAAARR WPFQTAKGSGS*DRPGRPGPDA PAAPPGWHRAPPSGSSSGAGTG RHPQPFGRPRRRTAPYAAPCA FVATLVFS*LLIFGGAFSFPALS HCPTSA*LKRLLSEPAPIAFPFG LHPGTLLSRASE
10919	41287	A	10981	1	5229	
10920	41288	A	10982	1	7044	
10921	41289	A	10983	1	3228	
10922	41290	A	10984	10	209	TLSGGEPQRLEAERRARLQDEE RRRQQQLE*MRKREAEDRARQ EEERRRQEEERTKRDAEEKVM
10923	41291	A	10985	293	363	
10924	41292	A	10986	3	434	
10925	41293	A	10987	3	1536	
10926	41294	A	10988	315	993	VPVAPIFHFSHFSPAPT VFTQSR QDSMQCILRQHCHLILISRSSSL VPAGLRGAMAFALAIRDTASY ARQMMFTTTLLICPELLALLS LSHSRSLLLHGYHGPS*YALFFS LSFSLVTWVGAKPGRYQSLIFV VVVGCTFQNGEPLREEDSDFIL TEGDLTLTYGDSTVTANGSSSS HTASTSLEGSRRTKSSSEEVLER DLGMGDQKVSSRGTRLVFPLE
10927	41295	A	10989	3	320	

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10928	41296	A	10990	3	582	GPPTPRRPRPLPSSLPSRRSRDPP RIPLCA*FPQTRKQIARSEPD*T WASQSSTSIPIWRFVHA*KFST APLTATPPPGKMCSAGCRETVK TT*PPLRGGPAPFLLPSRAVARG TRPGFRSALSFRPGRNRSRGVN LIKLGRLSPPPYPGFGGSYTPE NSQPLPSLLHPLEKCALRDAE RQLKPPDHMLMVAWLIPDVWN GEGEPSPSHTRHSLRASSSNYV LRAPEGNLLARRLPRETAINLQ PKACYKTLSPESFSHFYNQFC PRRHQWLPAPPPGHFFLG
10929	41297	A	10991	3	338	NSPSRPRSSQRGVAGRRSEAGP VAVP*GGPKKGRGC*GNRWWG QRPRWMLRASGSGESTTPACSA ENRHAS*RKKRKRPGQVSWE TEETRSGHSQPRGHAEPLLRP QRR
10930	41298	A	10992	3	226	TILSS*SSSSSSSPSPSPSPSPSP SPSPSPSPSPSPSPSSFFLRWS PALFPRSLSFLPFGTGTFPFCP
10931	41299	A	10993	24	489	KEYLVRTK*QKKGGENPLVKIT FRPPPGRLRTYPSAPWSARSTYG RAAAVWRPHSPSAPRRGTHPW PAGHRGQRASGEGVGTHTHAH MSSVCACSTHTCWSRNCKDPR EDRGRGLTVLLEAAVCNSCLLL VLKTPRNPQLPILYTDSDTKSST GNP
10932	41300	A	10994	1	1491	
10933	41301	A	10995	140	308	RNVIKLGWSRPSKQQDNPTLR PGPPSPAGGFQQLMRMRPLA GGGKSWGIAHFYKPLQRERRA GAECGLARQVRAEVTKWIGVN RRPRKRKRMEKEEVFEKLLPD QLGLLLEHLLQKTLSPRTLQS LQRTYHLQDQDAEVRHRWCEL IVKHKFTKAYKSVERFLQEDQA MGVYLYGELMVSEDARQQQL ARRCFERTKEQMDRSSAQVVA EMLF*RGQDRFSLKKCDKVKG MVKTQQATGQPDSPRPALTG RRVPATADADEKAFGGWRKIL GYRTFL